MICRO HiFi COMPONENT SYSTEM

# RXD-M31MD/ LS-M31(M)

# SERVICE MANUAL

(HM-381MD)

KENWOOD

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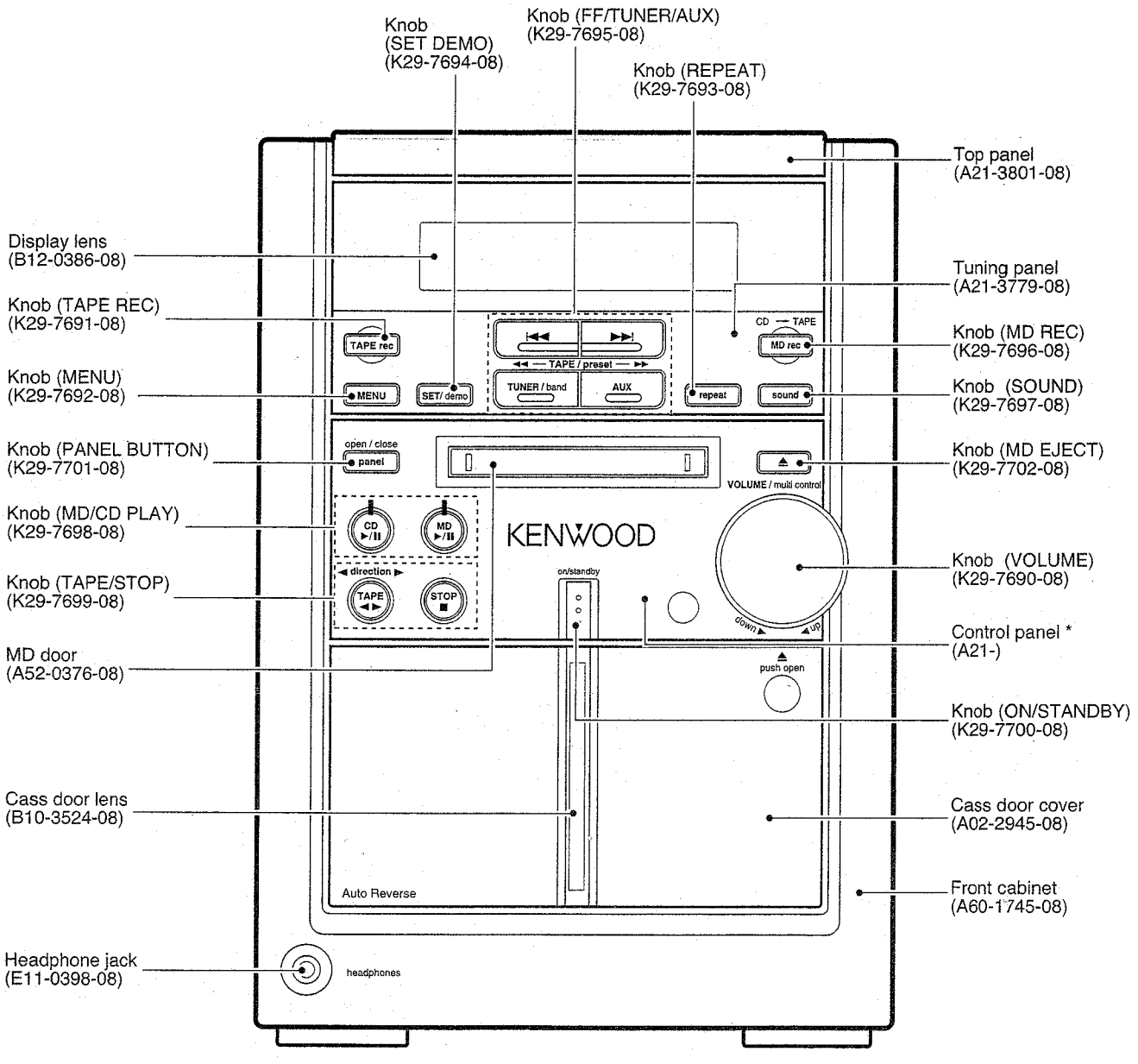
**This manual is available for repair in EUROPE and England markets as well.**




*** Refer to parts list on page 42.**

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Crop. certifies this equipment conforms to DHHS Regulations No. 21 DFR 1040. 10, Chapter 1, Subchapter J.
**DANGER : Laser radiation when open and interlock defeated.**
**AVOID DIRECT EXPOSURE TO BEAM**

70%

# RXD-M31MD

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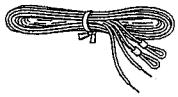
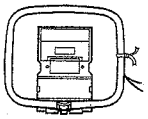
### Accessories

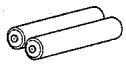
FM indoor antenna (1)
(T90-0801-05)



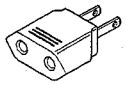
Loop antenna (1)
(T90-0846-08)



Batteries (R6/AA) (2)

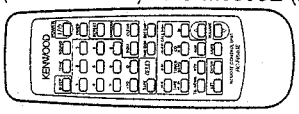


* AC plug adaptor (1)
(E03-0115-05)



* Use to adapt the plug on the power cord to the shape of the wall outlet.
(Accessory only for regions where use is necessary.)

Remote control unit (1)
(A70-1241-05) : RC-F503 (K,P,M)
(A70-1287-05) : RC-M0505E (E,T)



Battery cover (A09-1114-08)

### System configuration

| SYSTEM | MAIN UNIT | SPEAKER |
|---|---|---|
| HM-381MD | RXD-M31MD | ※LS-M31(M) |

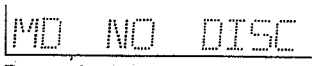
※ Refer number for LS-M31(M), refer to parts list on page 52.

### Cautions

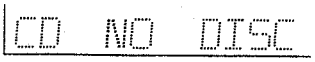
***Note related to transportation and movement***

Before transporting or moving this unit, carry out the following operations.

❶ Remove the CD or MD from the unit.
❷ Press the ►/II key of the MD.




❸ Press the ►/II key of the CD.
❹ Wait for some time and verify that the display becomes as shown in the figure.



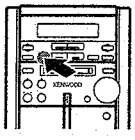

❺ Wait a few seconds and turn the unit OFF.

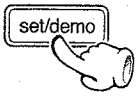
### *Operation to reset*

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

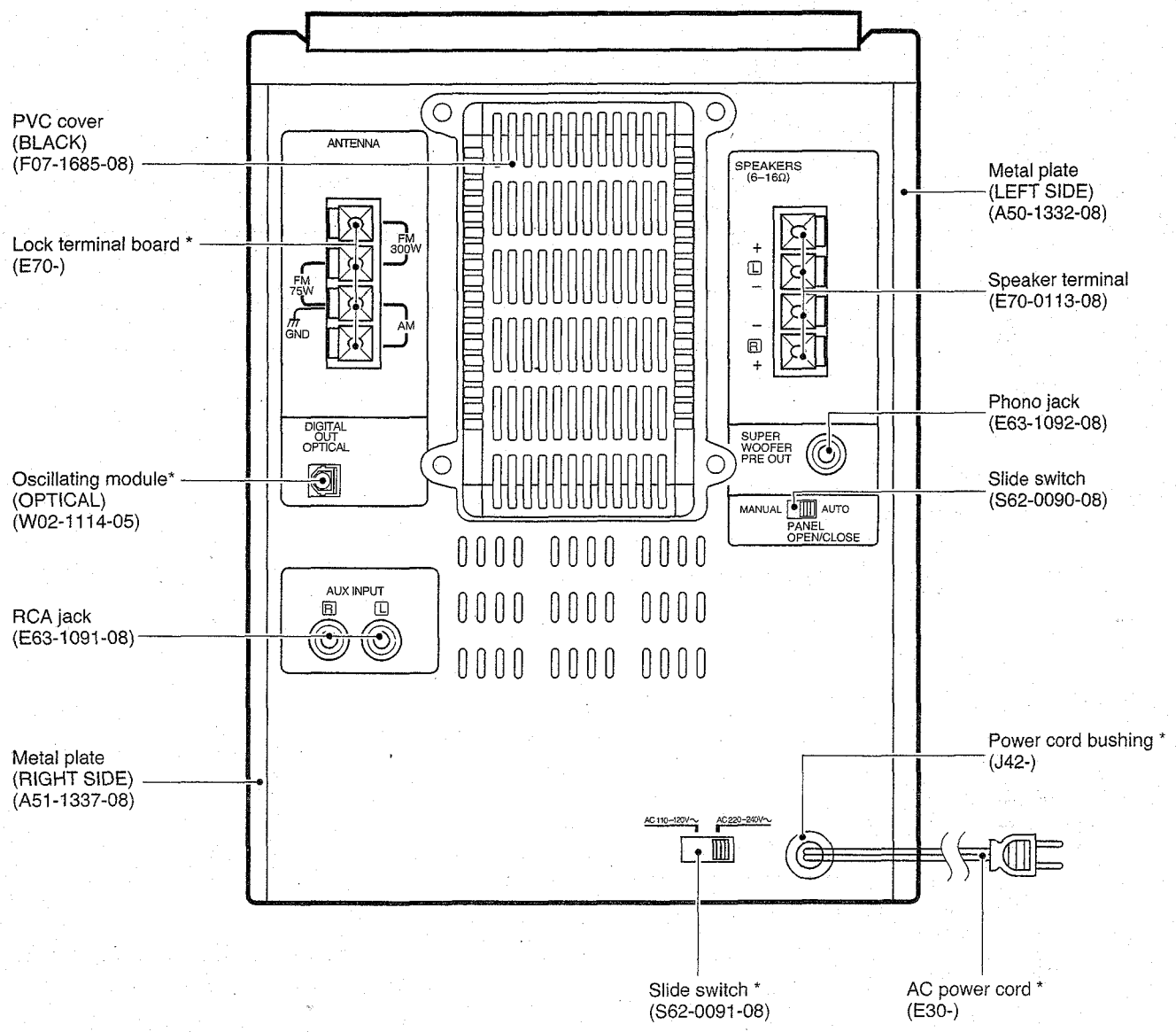
- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet then, while holding the "set/demo" key depressed, plug the power cord again.





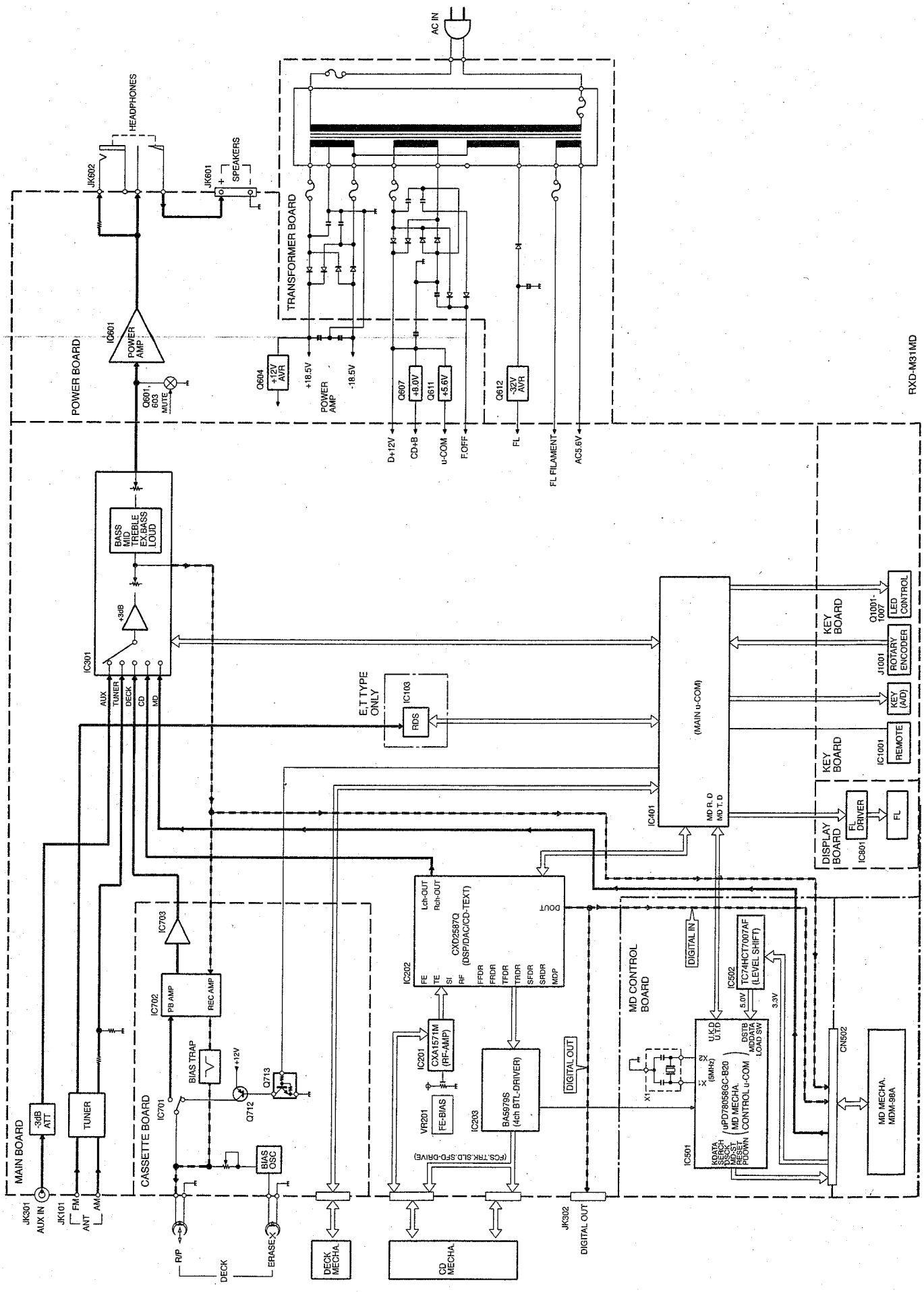
# EXTERNAL VIEW




*** Refer to parts list on page 42.**

# RXD-M31MD

## BLOCK DIAGRAM



## 1. Initialization

### 1-1 Setting of initial conditions

While pressing the [SET] key, plug the AC power cord into an AC power outlet.

### 1-2 Initializing operation

- A microcomputer is initialized for start when the AC power is turned on while pressing the [SET] key. At that time, CD mechanism, MD mechanism and CASSETTE mechanism are also initialized.
- During the initial operation, the display shows "INITIALIZE" and normal indication, after that it goes off immediately.

### 1-3 Initial items and back up data

| | ITEMS | |
|---|---|---|
| AMP | ※POWER | OFF |
| | ※VOLUME | 15 |
| | ※BALANCE | CENTER |
| | LOUDNESS | OFF |
| | EX. BASS | ON |
| | ※INPUT SEL | TUNER |
| | ※AUX INPUT | 0 |
| | ※BASS | 0 |
| | ※TREBLE | 0 |
| TUNER | ※BAND | FM |
| | ※LAST f | LIMIT |
| | ※LAST Pch | — — |
| | ※AUTO/MONO | AUTO |
| | ※Pch | TEST f |
| CLOCK TIMER | CLOCK | AM 12 : 00 |
| | ※PROG ON | AM 12 : 00 |
| | ※PROG OFF | AM 12 : 00 |
| | ※PRO MODE | PLAY |
| | ※SOURCE | TUNER |
| | ※Pch | 1 |
| | ※EXE | OFF |
| | ※OTT | OFF |
| | SLEEP | OFF |
| CD | PLAY MODE | TRACK |
| | REPEAT | OFF |
| | RANDOM | OFF |
| | PLAY MODE | STOP |
| DECK | ※DIRECTION | FORWARD |
| | ※RVS MODE | ⊃ |
| | OPERATION MODE | STOP |

※back up data

### 1-4 Mechanism initialization

#### 1-4-1 CD mechanism

- If a mechanism error occurs, "C" is indicated on the display.

#### 1-4-2 MD mechanism

- The MD ON code is input within 4 seconds after turned the power port on, the MD initial code (D122H) is output.
  If the MD on code is not input, the error indication is displayed as "M" on the display.

#### 1-4-3 CASSETTE mechanism

- If a mechanism error occurs, "X" is indicated on the display.

## 2. TUNER preset frequency

| ch | Destination | | | | | |
|---|---|---|---|---|---|---|
| | K2 | | E2 | | E1/H | |
| 1 | FM | 97.50MHz | FM | 97.50MHz | FM | 97.50MHz |
| 2 | FM | 108.00MHz | FM | 108.00MHz | FM | 108.00MHz |
| 3 | AM | 630kHz | AM | 630kHz | AM | 630kHz |
| 4 | AM | 1000kHz | AM | 999kHz | AM | 999kHz |
| 5 | AM | 1440kHz | AM | 1440kHz | AM | 1440kHz |
| 6 | AM | 1610kHz | AM | 1602kHz | AM | 1602kHz |
| 7 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 8 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 9 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 10 | FM | 89.10MHz | FM | 89.10MHz | FM | 89.10MHz |
| 11 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 12 | FM | 90.00MHz | FM | 90.00MHz | FM | 90.00MHz |
| 13 | FM | 106.00MHz | FM | 106.00MHz | FM | 106.00MHz |
| 14 | AM | 530kHz | AM | 531kHz | AM | 531kHz |
| 15 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 16 | FM | 98.00MHz | FM | 98.00MHz | FM | 98.00MHz |
| 17 | FM | 98.50MHz | FM | 98.50MHz | FM | 98.50MHz |
| 18 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 19 | AM | 990kHz | AM | 990kHz | AM | 990kHz |
| 20 | FM | 97.40MHz | FM | 97.40MHz | FM | 97.40MHz |
| 21 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 22 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 23 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 24 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 25 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 26 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 27 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 28 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 29 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 30 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 31 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 32 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 33 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 34 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 35 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 36 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 37 | FM | 87.50MHz | FM | 87.50MHz | FM | 87.50MHz |
| 38 | FM | 87.50MHz | FM | 87.50MHz | FML | 74.00MHz |
| 39 | FM | 87.50MHz | FM | 87.50MHz | FML | 65.00MHz |
| 40 | FM | 87.50MHz | FM | 87.50MHz | FML | 69.00MHz |

## 3. Destination list of TUNER

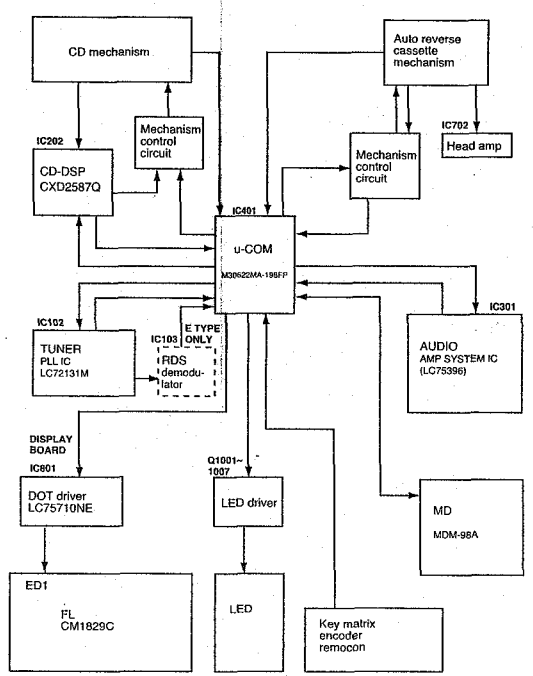
(DSW4=50pin, DSW3=49pin, DSW2=48pin)

| Destination | U-COM Destination | Discrimination | | | Band | Receiving frequency range | Channel space | IF | RF |
|---|---|---|---|---|---|---|---|---|---|
| | | DSW4 | DSW3 | DSW2 | | | | | |
| K, P | K1 | 0 | 0 | 0 | FM | 87.5MHz~108.0MHz | 100kHz | +10.7MHz | 25kHz |
| | | | | | AM | 530kHz~1700kHz | 10kHz | +450kHz | 10kHz |
| M, X | K2 | 0 | 0 | 1 | FM | 87.5MHz~108.0MHz | 100kHz | +10.7MHz | 25kHz |
| | | | | | AM | 530kHz~1610kHz | 10kHz | +450kHz | 10kHz |
| J | J | 0 | 1 | 0 | FM | 76.0MHz~108.0MHz | 100kHz | -10.7MHz | 25kHz |
| | | | | | AM | 531kHz~1629kHz | 9kHz | +450kHz | 9kHz |
| E, T | E1 RDS | 1 | 1 | 0 | FM | 87.5MHz~108.0MHz | 50kHz | +10.7MHz | 25kHz |
| | | | | | AM | 531kHz~1602kHz | 9kHz | +450kHz | 9kHz |

0=(input low) 1=(input high)

## 4. Main microprocessor M30622MA-198FP (MAIN BOARD IC401)

### 4-1 Microprocessor periphery block diagram




### 4-2 Key matrix

Vref = 5V

| VOLTAGE [V] | 0.357< ≦1.061 | 1.061< ≦1.726 | 1.726< ≦2.437 | 2.437< ≦3.156 | 3.156< ≦3.827 | 3.827< ≦4.586 | 4.586< |
|---|---|---|---|---|---|---|---|
| A/D (hex) | 12h< ≦36h | 36h< ≦58h | 58h< ≦7Ch | 7Ch< ≦A1h | A1h< ≦C3h | C3h< ≦EAh | EAh< |
| KEY1 89PIN | SOUND | REPEAT | MENU | SET | POWER | – | KEY OFF |
| KEY2 90PIN | STOP ■ | S. DOWN I◄◄ | CD ►/II | MD ►/II | MD rec (AUX) | – | KEY OFF |
| KEY3 91PIN | S. UP ►►I | EJECT ≙ | TUNER/band ◄◄ | AUX ►► | TAPE | TAPE REC | KEY OFF |

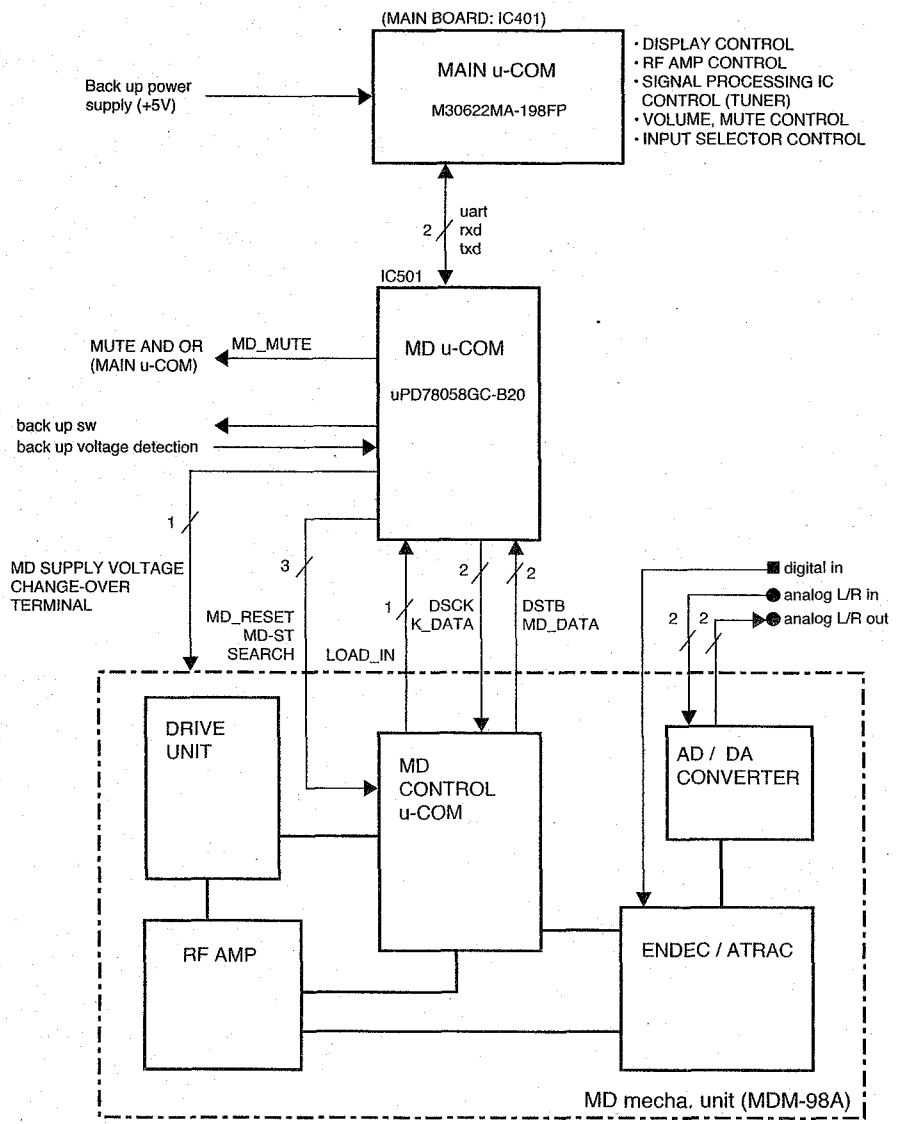
### 4-3 Pin description of main microprocessor

| Pin No. | Name | I/O | Description | | |
|---|---|---|---|---|---|
| 1 | CE | O | SYSTEM IC(LC75396)/PLL IC(LC72131)CE | | |
| 2 | PLL DO | I | PLL data input. | | |
| 3 | SD | I | Tuner SD detector input. | H: no tuned | L: tuned |
| 4 | STEREO | I | Tuner stereo detetor input. | H: mono | L: stereo |
| 5 | EMPHASIS | O | No used. | | |
| 6 | RDS DATA | I | RDS data input.(E/T type only) | | |
| 7 | CE | I | AC off detector input. | H: AC on | L: AC off |
| 8 | BYTE | I | Ground. | | |
| 9 | CNVSS | I | Ground. | | |
| 10 | XCIN | I | Timer clock(32.768kHz). | | |
| 11 | XCOUT | O | Timer clock(32.768kHz). | | |
| 12 | RESET | I | U-com reset signal input. | H: normal | L: reset |
| 13 | XOUT | O | Main clock. | | |
| 14 | VSS | - | Ground. | | |
| 15 | XIN | I | Main clock. | | |
| 16 | VCC | - | Power supply(+5.0V) | | |
| 17 | NMI | I | Power supply(+5.0V) | | |
| 18 | REMOCON | I | Remocon signal input. | | |
| 19 | RDX CLK | I | RDS clock input.(E/Ttype only) | | |
| 20 | SCOR | I | Sub code synchro signal input. | | |
| 21 | CD DC OFF | O | Power supply control for CD DSP. | H: off | L: on |
| 22 | SCLK | O | CD sense data read out clock. | | |
| 23 | SENSE | I | CD sense input. | | |
| 24 | CD CLK | O | CD DSP clock. | | |
| 25 | XLAT | O | CD DSP latch output. | | |
| 26 | CD DATA | O | CD DSP data output. | | |
| 27 | CD RST | O | CD DSP reset signal output. | H: normal | L: reset |
| 28 | SQCK | O | CD sub code clock. | | |
| 29 | SQSO | I | Input of CD sub code. | | |
| 30 | NC | O | No used. | | |
| 31 | FL DATA | O | Data output of FL driver. | | |
| 32 | NC | O | No used. | | |
| 33 | FL CLK | O | Clock output of FL driver. | | |
| 34 | CD ZD | - | No used. | | |
| 35 | UART1 | O | Transmission data output to MD(UART). | | |
| 36 | UART2 | I | Data input from MD(UART). | | |
| 37 | LCD | O | CD laser output control. | H: off | L: on |
| 38 | NC | O | No used. | | |
| 39 | MD RST | O | MD reset signal output. | H: normal | L: reset |
| 40 | CD MON | O | ON/OFF control output of disc monitor. | H: on | L: off |
| 41 | NC | O | No used. | | |
| 42 | DM SHORT | O | Same as CD power signal. | H: off | L: on |
| 43 | DOOR SW | I | Input port of CD door switch. | H: open | L: close |
| 44,45 | NC | O | No used. | | |
| 46 | MODEL | I | Input port of model discrimination. | | |
| 47 | DOLBY | I | No used. | | |
| 48~50 | CODE2~4 | I | Discrimination of tuner destination. | | |
| 51 | FL RST | O | Reset signal output of FL driver. | | |

| Pin No. | Name | I/O | Description | | | |
|---|---|---|---|---|---|---|
| 52 | PWX33 | O | Control port of MD CE. | | | |
| 53 | ENC1 | I | Rotary encoder input(vol.A). | | | |
| 54 | ENC2 | I | Rotary encoder input(vol.B). | | | |
| 55 | LED5 | O | Control port of LED(MD). | H: on | | L: off |
| 56 | LED4 | O | Control port of LED(CD). | H: on | | L: off |
| 57 | LED3 | O | Control port of LED(standby,RED). | H: off | | L: on |
| 58 | LED2 | O | Control port of LED(standby,GRN). | H: off | | L: on |
| 59 | LED1 | O | Control port of LED(FWD). | H: on | | L: off |
| 60 | LED0 | O | Control port of LED(RVS). | H: on | | L: off |
| 61 | FL CE | O | Output port of CE(FLdriver). | | | |
| 62 | VCC | - | Power supply. | | | |
| 63 | NC | O | No used. | | | |
| 64 | VSS | - | Ground. | | | |
| 65 | A/B-2 | O | Deck activity choise mode. | 65 | 66 | |
| | | | | H | H | REC |
| 66 | A/B-1 | O | Deck activity choise mode. | L | H | REC PAUSE,ARM |
| | | | | L | L | PLAY |
| 67 | CPM | O | Deck motor control. | H: on | | L: off |
| 68 | SOL | O | Deck solenoid control. | H: on | | L: off |
| 69 | REC F SW | I | Deck FWD REC switch input. | H: off | | L: on |
| 70 | REC R SW | I | Deck RVS REV switch input. | H: off | | L: on |
| 71 | PACK SW | I | Deck pack switch input. | H: off | | L: on |
| 72 | Cro2 SW | - | No used. | | | |
| 73 | PLAY SW | I | Deck play switch input. | H: off | | L: on |
| 74 | B1/2 | - | No used. | | | |
| 75 | A120/70 | - | No used. | | | |
| 76 | BIAS | O | Deck bias control. | H: on | | L: off |
| 77 | NOR | - | No used. | | | |
| 78 | REC/PLAY | - | No used. | | | |
| 79 | NR/ON | - | No used. | | | |
| 80 | S.CL | O | Clock output to system IC/PLL IC. | | | |
| 81 | PRT MD | I | MD protection. | H: protection on | | |
| 82 | FAN H/L | - | No used. | | | |
| 83 | FAN ON/OFF | - | No used. | | | |
| 84 | A MUTE | O | Audio muting control. | H: off | | L: on |
| 85 | CD A MUTE | O | CD analog muting control. | H: on | | L: off |
| 86 | TU.MT | O | Tuner muting control. | H: on | | L: off |
| 87 | PWR07 | O | Power relay control. | H: on | | L: off |
| 88 | PRT07 | I | Detection port of protection. | H: protection on | | |
| 89~91 | KEY1~KEY3 | I | Key A/D input(1~3). | | | |
| 92,93 | A/DP1,A/DP2 | - | No used. | | | |
| 94 | TA.MT | O | Muting control of DECK. | H: on | | L: off |
| 95 | RDS SLEVEL | I | RDS S-level input.(E/T type only) | | | |
| 96 | AVSS | - | Ground. | | | |
| 97 | PHOTO | I | Deck reel detector input. | | | |
| 98 | VREF | - | Reference voltage.(no back up) | | | |
| 99 | AVCC | - | Power supply.(back up) | | | |
| 100 | S.DI | O | Data output to system IC/PLL IC. | | | |

## 5. Composition (MD section)

### 5-1 Microprocessor periphery block diagram




### 5-2 Pin description of MD u-com : UPD78058GC-B20(MD control board, IC501)

| Pin No. | Name | I/O | Description |
|---|---|---|---|
| 1 | PDOWN | O | MDM-98A power down detector. |
| 2 | SEARCH | O | CD search output. |
| 3 | LOAD IN | I | Load switch input. |
| 4 | AVSS | - | A/D power supply(connected to ground). |
| 5 | GND | - | No used. |
| 6 | NC | - | No used. |
| 7 | AVREF1 | - | D/A reference voltage(+5.0V). |
| 8 | UART2 | I | Communiation from main u-com(UART RXD). |
| 9 | UART1 | O | Communiation to main u-com(UART TXD). |
| 10 | NC | - | No used. |
| 11 | MD DATA | I | MD IC input data(MDM-98A input data). |
| 12 | K DATA | O | MD IC output data(MDM-98A output data). |
| 13 | DSCK | O | MD IC clock output(MDM-98A). |
| 14 | DSTB | I | Strobe input for MD IC(MDM-98A). |
| 15 | COMM ANS | I | No used. |
| 16 | COMM DIN | I | No used. |
| 17 | COMM DOUT | O | No used. |
| 18 | COMM CLK | I/O | No used. |
| 19 | COMM REQ | O | No used. |
| 20~31 | - | - | No used. |
| 32 | 6.5/5.0V | O | Change- over of load voltage for MD unit. (disc load/eject : H other : L) |
| 33 | VSS | - | Ground. |
| 34~43 | - | - | No used. |
| 44 | INISW | I | Initial switch input. |
| 45~52 | - | - | No used. |
| 53~55 | GND | - | No used. |
| 56~58 | NC | - | No used. |
| 59 | SRESET | O | No used. |
| 60 | RESET | I | Reset signal input. |
| 61 | GND | - | No used. |
| 62~66 | - | - | No used. |
| 67 | CE | I | Detection signal input of AC OFF. |
| 68 | VDD | - | U-com power supply. |
| 69 | X2 | - | 5MHz oscillator. |
| 70 | X1 | I | 5MHz oscillator. |
| 71 | IC | - | No used. |
| 72 | NC | - | No used. |
| 73 | GND | - | No used. |
| 74 | AVDD | - | A/D power supply. |
| 75 | AVREFO | I | A/D reference voltage. |
| 76 | BACKUP | O | Detection signal(A/D) input for back up. (back up : more than 2.2V no back up : less than 2.2V |
| 77 | AMUTE | O | Analog signal input. H : mute on L : mute off |
| 78 | BACKSW | O | Detection switch input for back up. H : on(in case of CE=H) L :off(in case of CE =L) |
| 79 | MD RESET | O | Reset signal input of MD u-com. H : normal L : MD u-com reset |
| 80 | MD ST | O | ST-ID output(MD ON). |

## 6. Test mode

### 6-1 Test mode of the receiver

(1) Setting of the test mode.
While pressing the [Band] key, plug the AC power cord into an AC power outlet.
(2) Canceling of the test mode.
Unplug an AC power cord.
(3) Condition in test mode.
POWER ・・・・・・ON
SELECTOR ・・・TUNER [BAND]
FL, LED ・・・・・・All the fluorescent display indicate and LEDs light. (The all illuminated state is cleared by pressing any main unit key or remocon key.
EX. BASS ・・・・・OFF

(4) Basic operation in test mode.
① The muting during mode selection is not controlled in the test mode.
② The test mode is cancelled when the AC power is turned OFF.
(5) The operation of the keys in the test mode.

| SERECTOR / OPERATION KEY | TUNER | AUX | | |
|---|---|---|---|---|
| MENU | NORMAL ACTIVITY | →DISPLAY → VOLUME (VOLUME15) | DISPLAY → INPUT (INPUT 0 ) | DISPLAY → BALANCE (CENTER) |
| I◄◄ | P.CALL : DOWN | VOLUME 1 | INPUT-6(dB) | - |
| ■ | P.CALL : 10 STEP CHANGEOVER →10→20→30→40→01 | VOLUME 40 | INPUT 0 (dB) | - |
| ►►I | P.CALL : UP | VOLUME 80 | INPUT+3(dB) | - |
| REPEAT | →EQU.MAX → EQU.MINI → EQU.FLAT | | | |
| SOUND (E.T only) | S-LEVEL DISPLAY →ATT OFF ＊＊ ↓ ATT ON ＊＊ ↓ TUNER ATT OFF (NORMAL DISPLAY) ＊＊ : S-LEVEL A/D VALUE(HEX) | NORMAL ACTIVITY | | |

## 6-2 Test mode of DECK section

(1) Setting
While pressing the TAPE key(DECK), plug the AC power cord into an AC power outlet.
(2) Resetting
Disconnect the AC power cord from an AC power outlet or press the [ON/STANDBY] key.
(3) Operation in TEST mode
(a) Initial condition

| Item | Condition |
|---|---|
| Power | ON |
| Selector | TAPE |
| Main VOL. | 0dB (VOL. 80) |
| Input level(AUX) | -6dB(INPUT 0) |
| EX. bass | OFF |
| FL, LED, LCD | All the FLs, LEDs, and LCDs are turned on |

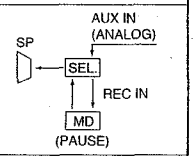
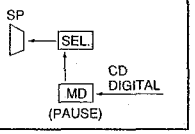
(b) 4-sec REC
- If the REC key is pushed, the system record for 4sec. Then, it rewinds to the REC starting position and plays back automatically.
- If the REC key is pushed during the 4-sec REC operation, the system records further for 4-sec, then returns to the starting position of the first 4-sec REC operation and plays back.

(c) Mechanism half switches indication
The mechanism half switches status are indicated "/ " or "TAPE" on the display as shown below.

| DOT (DISPLAY) | 1st figure | 2nd figure | 3rd figure | 4th figure |
|---|---|---|---|---|
| MECHA. HALF SWITCH | FWD REC INHIBIT DETECTION SW | RVS REC INHIBIT DETECTION SW | CRO2(TYPE Ⅱ) DETECTION SW | CASSETTE HALF DETECTION SW |
| NG | / | / | / | / |
| OK | T | A | P | E |

## 6-3 Test mode of MD player

6-3-1 Inspection mode
Setting : While pressing the [MD REC] Key, plug the AC power cord into an AC power outlet.
The "INSPECTION" shows on the display.
Cancellation : Unplug the AC power cord from an AC power outlet.

| No. | Contents of TEST mode | Keys | Operation & Indication | RemarKs |
|---|---|---|---|---|
| 1 | Analog through test mode | SOUND | • The "ANALOG" is indicated on the display for a second.<br>• AUX input level→MID<br>• Source indicator (MD) is turned ON . |  |
| 2 | Digital through test mode | SOUND | • The "DIGITAL1" is indicated on the display for a second. "DIGITAL1"→CD input<br>• Source indicator (MD) is turned ON. |  |

## 6-3-2 MD TEST mode for adjustment

**1. Preparation for adjustment**
**Test disc**

| | Type | Test disc |
|---|---|---|
| 1 | High reflection disc | TGYS1 (SONY) |
| 2 | Low reflection disc | Recording minidisc |
| 3 | ———— | Head Adjusting transparent |

**2. Test mode**
**Test mode setting method**
1. While pressing the [MD PLAY] key, plug the AC power cord into the AC power outlet.
(Start from Ⓐ if no disc load, Ⓒif disc load.)

STEP Display
Ⓐ MD
↓
Ⓑ EJECT
↓
Ⓒ AUT YOBI
↓ Change to step Ⓓif press <MD STOP> key. Return to Ⓒif press <MD REC>key.
Ⓓ tsm OOOOeOO : Test mode STOP state
OOOO: MD microprocessor version.

* Repair service is available for AUTO pre-adjustment and AUTO adjustment only.
Press MD STOP key to cancel the test mode if in needless test modes.

**Entering the specific mode**
Whenever the [MD REC] button is pressed, the mode is changed.

→ AUTO pre-adjustment (AUT YOBI) → AUTO adjustment (AUTO AJST) → RESULT SUB (RST YOBI) → RESULT (RESULT) →
← EEPROM setting (EEPROM SET) ← MANUAL adjustment (MNU AJST) ← MANUAL pre-adjustment (MNU YOBI) ←

( ): Display

**• Canceling the test mode**
When the POWER button is pressed, the test mode is canceled, and the POWER OFF state is set.

**· Test Mode**

| | |
|---|---|
| 1. AUTO pre-adjustment mode | · Automatic pre-adjustment is performed. (After adjustment the grating adjustment mode is set.)<br>· The adjustment value is output with the aid of system controller interface. |
| 2. AUTO adjustment mode | · Automatic adjustment is performed.<br>· The adjustment value is output with the aid of system controller interface.<br>· Continuous playback is performed. (Error rate indication, jump test) |
| 3. RESULT sub-mode* | · The measurement value, set value and calculated value are indicated.<br>· The set value is changed manually (in servo OFF state). |
| 4. RESULT mode (final adjustment)* | · The set value (after calculation) is indicated.<br>· The set value is changed manually (in servo OFF state). |
| 5. MANUAL pre-adjustment mode* | · RF side manual adjustment is performed.<br>· Focus and tracking signal ATT manual adjustment is performed.<br>· Focus and tracking signal offset setting is performed. |
| 6. MANUAL adjustment mode* | · Focus and tracking signal ATT manual adjustment is performed. |
| 7. EEPROM setting mode* | · Don't adjust. |
| 8. TEST-PLAY mode* | · Continuous playback from the specified address is performed.<br>· C1 error rate measurement, |
| 9. TEST-REC mode* | · Continuous recording from the specified address is performed.<br>· Change of record laser output (servo gain is also changed according to laser output) |
| 10. EJECT mode* | · TEMP setting (of EEPROM setting) |

* This mode is not used for service.

**1. AUTO pre-adjustment mode (Low reflection disc only)**

| Step No. | Setting Method | Remarks | Display |
|---|---|---|---|
| Step 1 | Test mode STOP state | | [ t s m○○○○ e ○○ ] |
| Step 2 | Press once the MD REC button. | AUTO pre-adjustment menu | [ ATU YOBI ] |
| Step 3 | Press once the MD PLAY button.<br><br><br><br>End of adjustment | The slide moves to the innermost periphery, and automatic pre-adjustment is started.<br>· During automatic adjustment ✳✳✳ changes as follows.<br>HAo→RFg→SAg→SBg→PTG→PCH→GTG→GCH→RCG→SEG→RFG→SAG→HAO→HEO→TCO→LAO<br>If adjustment is OK, Step 4.<br>If adjustment is NG, Step 5. | [ ✳✳✳ : _ _ _ _ _ _ ] |
| Step 4 | Grating adjustment,<br>adjustment value output<br>Press once the MD STOP button. | <br><br>STEP 2 | [ _ C O M P L E T E _ ] |
| Step 5 | Adjustment value output<br>Press once the MD STOP button. | STEP 2 AUTO pre-adjustment menu | [ A U T Y O B I ] |

· ✳✳✳ : Adjustment name, □□□□ : Address

**2. AUTO adjustment mode**

| Step No. | Setting Method | Remarks | Display |
|---|---|---|---|
| Step 1 | Test mode STOP state | | [ t s m○○○○ e ○○ ] |
| Step 2 | Press the MD REC button two times. | AUTO adjustment menu | [ A U T O _ A J S T _ ] |
| Step 3 | Press once the MD PLAY button.<br><br><br><br>End of adjustment | The slide moves to the innermost periphery, and automatic adjustment is started.<br>· In case of high reflection disc ✳✳✳ changes as follows.<br>PEG→HAG<br>·In case of low reflection disc ✳✳✳ changes as follows.<br>PEG→LAG→GCG→GEG→LAG<br>If adjustment is OK, Step 4.<br>If adjustment is NG, Step 7. | [ ✳✳✳ : _ _ _ _ _ _ ] |
| Step 4 | Adjustment value output<br>Press the MD PLAY button.<br>Press the MD STOP button. | <br>STEP 5<br>STEP 2 | [ _ C O M P L E T E _ ] |

| Step No. | Setting Method | Remarks | Display |
|---|---|---|---|
| Step 5 | Continuous playback (groove section) | | [ a□□□□c○○○○ ] |
| Step 6 | Press the MD STOP button. | STEP 2 AUTO adjustment menu | |
| Step 7 | Adjustment value output<br>Press the MD STOP button. | STEP 2 AUTO adjustment menu | [ C a n ' t _ A D J . ] |

· ✳✳✳ : Adjustment name, ○○ : Measurement value, □□□□ : Address

**● Mechanism Adjustment**

**1. Optical pickup grating inspecting method**

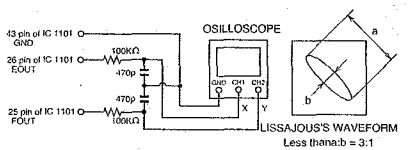



**Figure 1-1 Optical Pickup Grating Deviation Measuring Method**

After the automatic adjustment is performed in the AUTO mode (test mode) with the aid of high refection MD disc ("COMPLATE" is displayed), the Lissajous's waveform (x-y) is adjusted.

1. Slightly loosen the 3 screws of spindle moto, and maken an adjustment, observing the Lissajous's waveform.
2. After adjustment tighten the screw in order of ① , ② , ③ .

**2. Jitter adjustment and checking method**

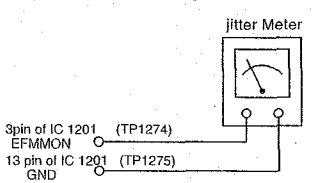
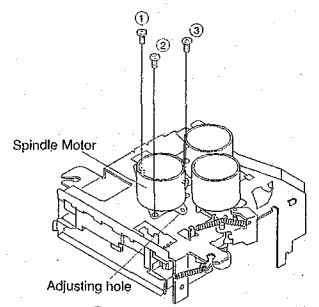



**Figure 1-3 Jitter connection diagram**

After performing automatic adjustment in AUTO mode of TEST mode using the low reflection MD disc, check this jitter in pit continuous playback and groove continuous playback mode.



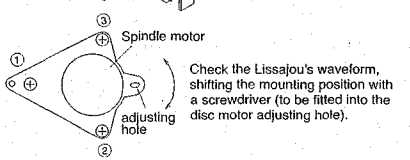


③
Spindle motor
①
adjusting hole
②
Check the Lissajou's waveform, shifting the mounting position with a screwdriver (to be fitted into the disc motor adjusting hole).

**Figure 1-2**

### 6-4 Test mode of CD player

6-4-1 Main unit

(1) Setting of the test mode

While pressing the [CD PLAY] key, plug the AC power cord into an AC outlet.

(2) Canceling of the test mode.

Unplug the AC power cord from AC power outlet.

(3) Operation

<table>
<tr><th>KEY</th><th>DISPLAY</th><th>OPERATION</th></tr>
<tr><td>[CD PLAY]<br>+AC</td><td>CD 5 01</td><td>POWER ON, SEL CD<br>Mecha. initialization</td></tr>
<tr><td>STOP</td><td>CD 5 01</td><td>STOP</td></tr>
<tr><td rowspan="2">PLAY/PAUSE<br>PAUSE<br>↓ ↑<br>PLAY<br>(Cyclically<br>changed)</td><td>CD 5 05<br>PLAY MARK<br>ON ▶</td><td>05 MODE</td></tr>
<tr><td>CD 5 03<br>PAUSE MARK<br>ON ▮▮</td><td>03 MODE<br>(TRACKING SERVO OFF)</td></tr>
<tr><td>SKIP DOWN</td><td>CD 5</td><td>Indication<br>: Adjustment value/Mean value (stop mode only)/HEX
<table>
<tr><th>DOT section</th><th>TNO section</th><th>SEC. section</th></tr>
<tr><td>TB/FB</td><td>TB value</td><td>FB value</td></tr>
<tr><td>TG/FG</td><td>TG value</td><td>FG value</td></tr>
<tr><td>FE/RF</td><td>FE value</td><td>RF value</td></tr>
<tr><td>TE/VC</td><td>TE value</td><td>VC value</td></tr>
</table></td></tr>
<tr><td>SKIP UP</td><td>CD 5 06</td><td>Read TOC → play</td></tr>
</table>

### 7. MD mechanism error message

| DISPLAY | DESCRIPTION |
|---|---|
| BLANK DISC | Non Recorded disc |
| CAN'T COPY | Inhibit to record by SCMS |
| CAN'T EDIT | Inhibit to edit by MD standard |
| CAN'T REC | Inhibit to record by disc damage(10 or more defects/recordable cluster is 0) |
| DISC ERROR** | OR : UTOC read error or FTNO>LTNO |
| | (edit/record) permit ALL ERASE only |
| | DO : Start address TNO>endless TNO |
| | (playback) handle poor TNO as 1SG |
| | (edit/record) permit ALL ERASE only |
| | C0 : Write poor data in UTOC0 |
| | C1 : Write poor data in UTOC1 |
| | C2 : Write poor data in UTOC2 |
| | C4 : Write poor data in UTOC4 |
| | (play back) playback even if address roof(C0) |
| | (edit/record) permit ALL ERASE only |
| DISC FULL | No recordable area |
| MECH ERR** | 10-13 : head poor down |
| | 20-23 : head poor up |
| no disc | No disc in the unit |
| NO TRACKS | Disc recorded title only |
| NOT AUDIO | Disc recorded audio signal. |
| PLAY ONLY | Record to music disc |
| PROTECTED | Record disc inhibited to record |
| READING | In mode of reading TOC or UTOC |
| SRCH ERR** | 30 : Search time over in playback, FF or FB |
| | 31 : Search time over in REC-PAUSE |
| | 32 : Search time over in record |
| TEMP OVER | High temperature |
| TITLE FULL | Input over letter of title |
| UNIT ERROR | Hardware damage |
| UTOC W ERR | Error of writing to UTOC |
| WRITING | In writing to UTOC |

## Adjustment of tuner

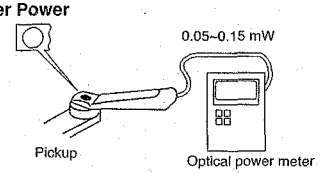
| No. | ITEM | INPUT SETTING | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| 1 | TUNED LEVEL | (A)<br>98 MHz,<br>31.2dBf (ANT INPUT)<br>1kHz, ±40 kHz DEV | – | MONO<br>98.0 MHz | VR101 | Adjust VR1 and stop at the point where ED1 (TUNED) goes ON. | |

## Adjustment of CD player

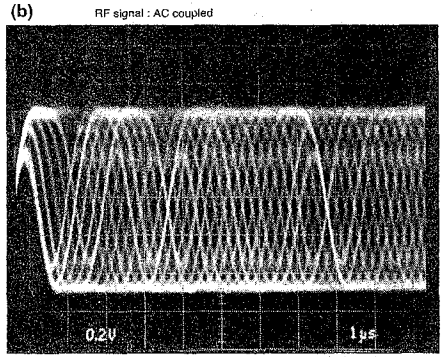
| No. | ITEM | INPUT SETTING | OUTPUT SETTING | PLAYER SETTING | ALIGNMENT POINT | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| **TEST MODE : While pressing the [CD PLAY] key, plug the AC power cord into the AC outlet.** | | | | | | | |
| 1 | LASER POWER | – | Set the senor section of the optical power meter on the pickup lens. | Press the "PLAY" key to check that the display is "03". | – | On the power from.0.05 to 0.15mw. when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more | (a) |
| 2 | FOCUS ERROR BIAS | Test disc Type 4 | Connect an oscilloscope as follows.<br>(+)side :<br>RF(IC201, 17pin)<br>GND : VREF(test pin) | Press the "PLAY" key. Confirm that the display is "05". | VR201 | Optimum eye pattern | (b) |

Note:
Type 4disc :SONY YEDS-18 Test Disc or equivalent.
LPF : Around 47kΩ + 390pF or so.

**(a) Laser Power**



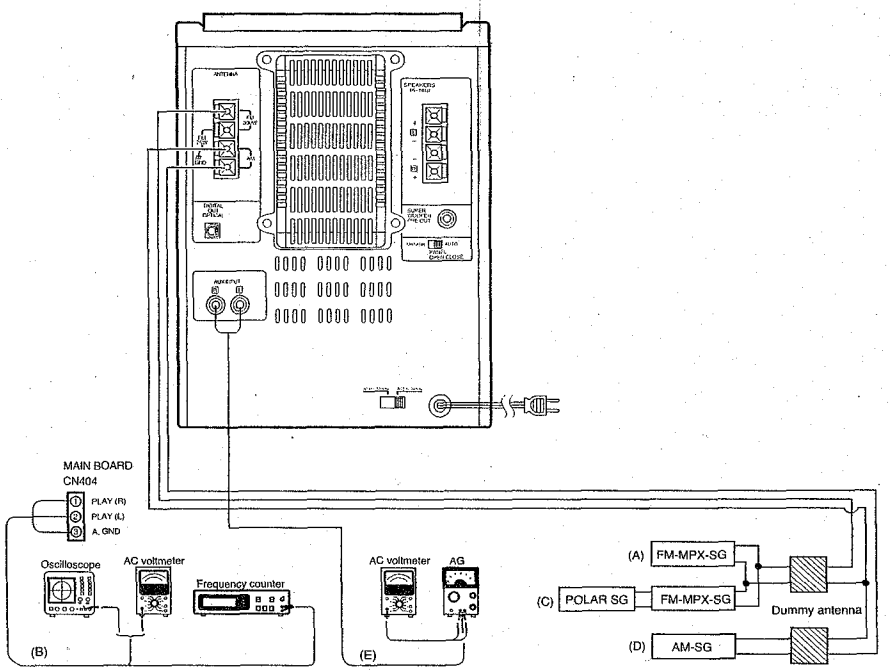

**(b)** RF signal : AC coupled




- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

## Adjustment of cassette deck

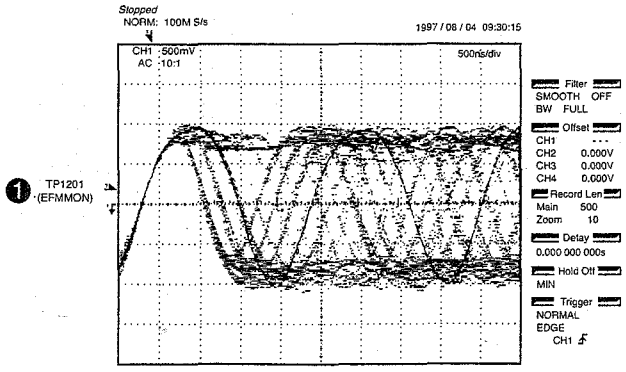
| NO. | ITEM | INPUT SETTING | OUTPUT SETTING | CASSETTE TAPE DECK SETTING | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| **Unless otherwise specified, set the respective switches as follows:** **0dBs = 0.775V**<br>**TAPE : NORMAL DOLBY : OFF**<br>**I Cassette mechanism unit (Adjustment of the REC / PLAY head)** | | | | | | | |
| (1) | Demagnetization and cleaning | – | – | Power : OFF<br>Demagnetization, cleaning, PLAY | Recording head, erase head, capstan pinch roller | Demagnetize the REC / PLAY head with the head eraser. Clean the REC/ PLAY head, erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol. | |
| (2) | Azimuth of the REC / PLAY head | SCC-1727<br>TCC-153<br>MTT-114<br>10kHz, -10dB | (B) | PLAY | | Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajours waveform pattern of the oscilloscope to become close to a 45° straight ling. | |
| **II PC board adjustment.** | | | | | | | |
| (1) | BIAS CURRENT | (E)<br>• Set the AUX input level to +3dB.<br>• Adjust the AG for the output of the deck to become -20dB (400Hz/12.5kHz). | (B) | REC PLAY | VR701(L)<br>VR702(R) | Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the same. | |



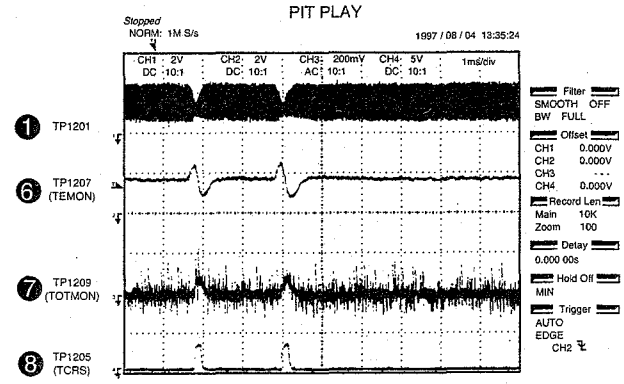
# RXD-M31MD

## WAVE FORM

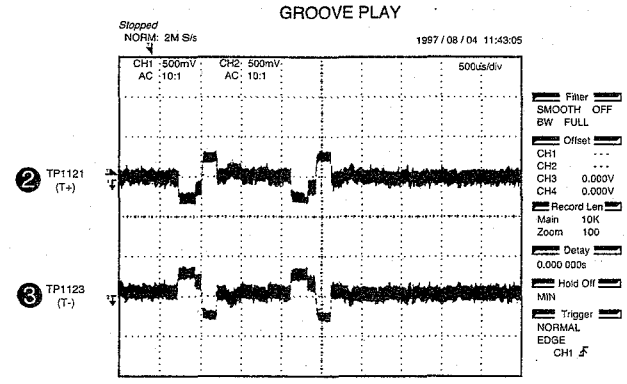
PLAY


Stopped
NORM: 100M S/s
1997 / 08 / 04 09:30:15
CH1 500mV AC 10:1
500ns/div
1 TP1201 (EFMMON)
Filter SMOOTH OFF BW FULL
Offset CH1 --- CH2 0.000V CH3 0.000V CH4 0.000V
Record Len Main 500 Zoom 10
Detay 0.000 000 000s
Hold Off MIN
Trigger NORMAL EDGE CH1

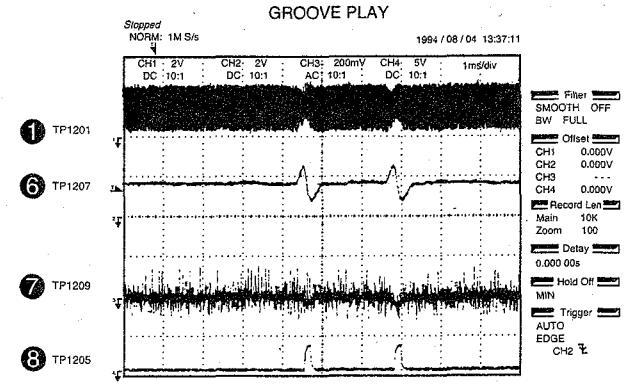
PIT PLAY



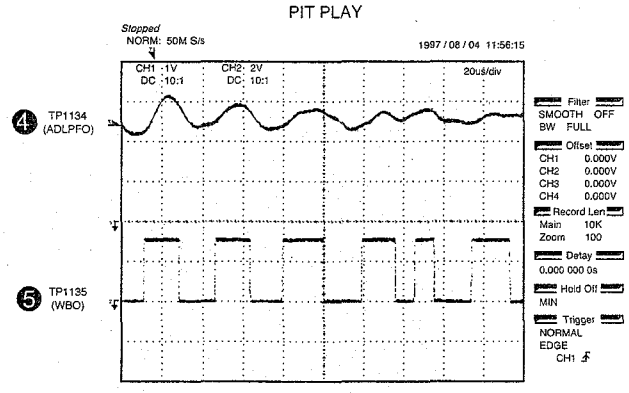

GROOVE PLAY



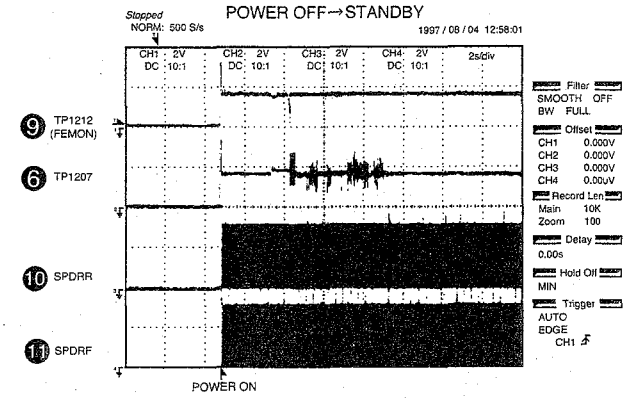

GROOVE PLAY



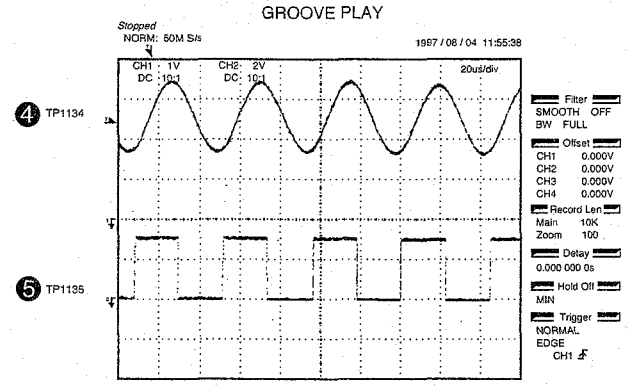

PIT PLAY


Stopped
NORM: 50M S/s
1997 / 08 / 04 11:56:15
CH1 1V DC 10:1
CH2 2V DC 10:1
20us/div
4 TP1134 (ADLPFO)
5 TP1135 (WBO)
Filter SMOOTH OFF BW FULL
Offset CH1 0.000V CH2 0.000V CH3 0.000V CH4 0.000V
Record Len Main 10K Zoom 100
Detay 0.000 000 0s
Hold Off MIN
Trigger NORMAL EDGE CH1

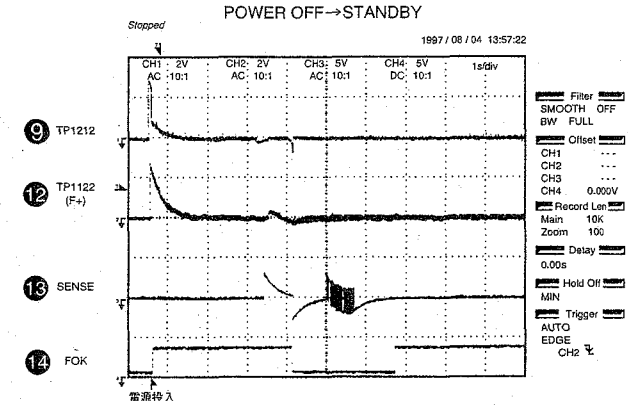
POWER OFF→STANDBY



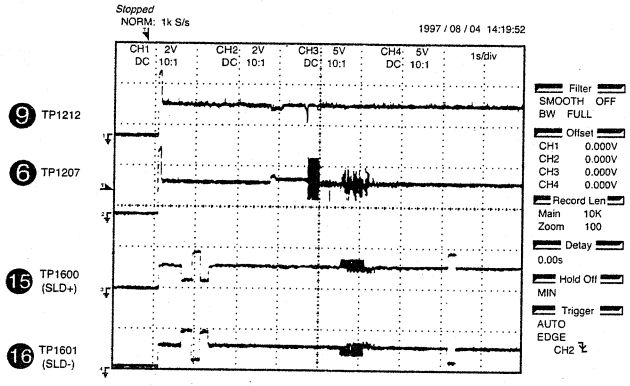

GROOVE PLAY



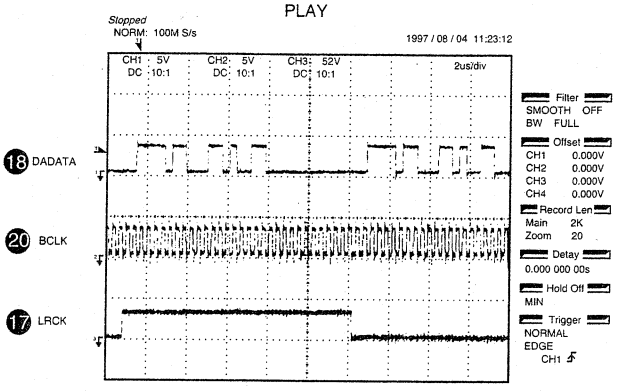

POWER OFF→STANDBY

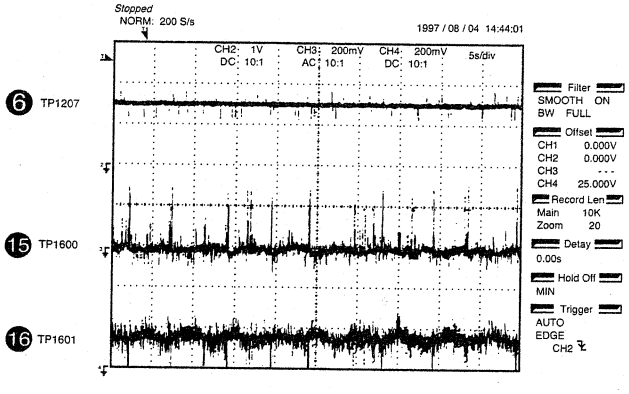


# WAVE FORM

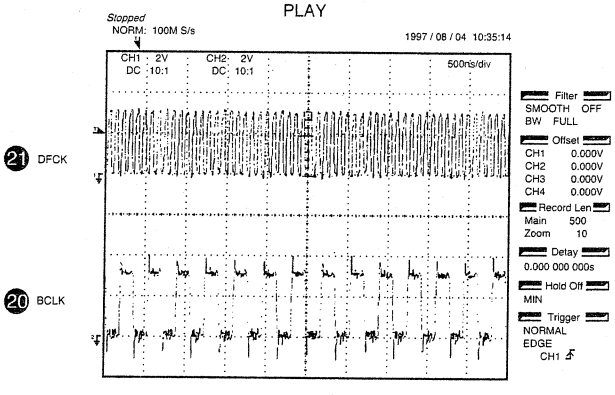



PLAY

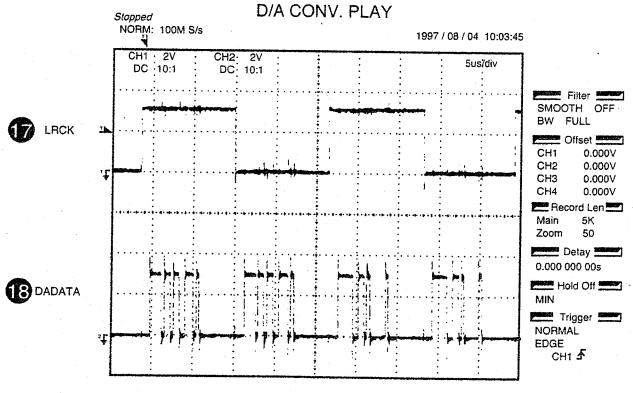


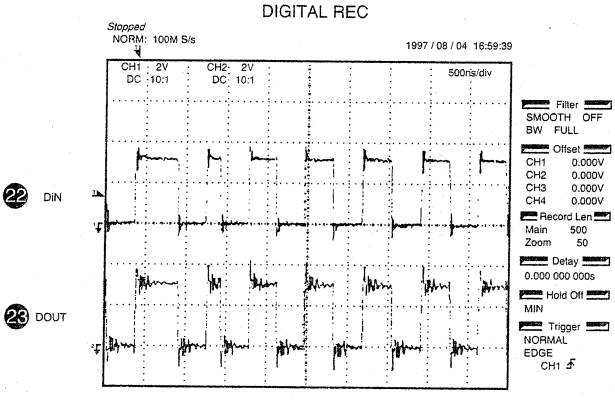

PLAY



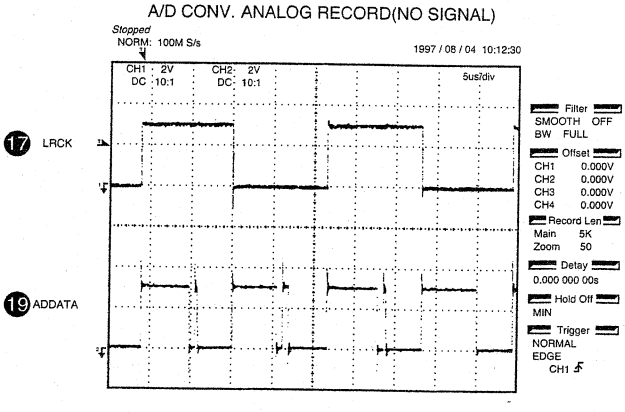

D/A CONV. PLAY



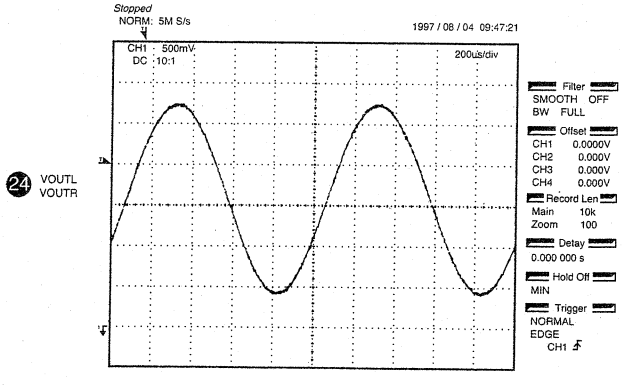

DIGITAL REC




A/D CONV. ANALOG RECORD(NO SIGNAL)



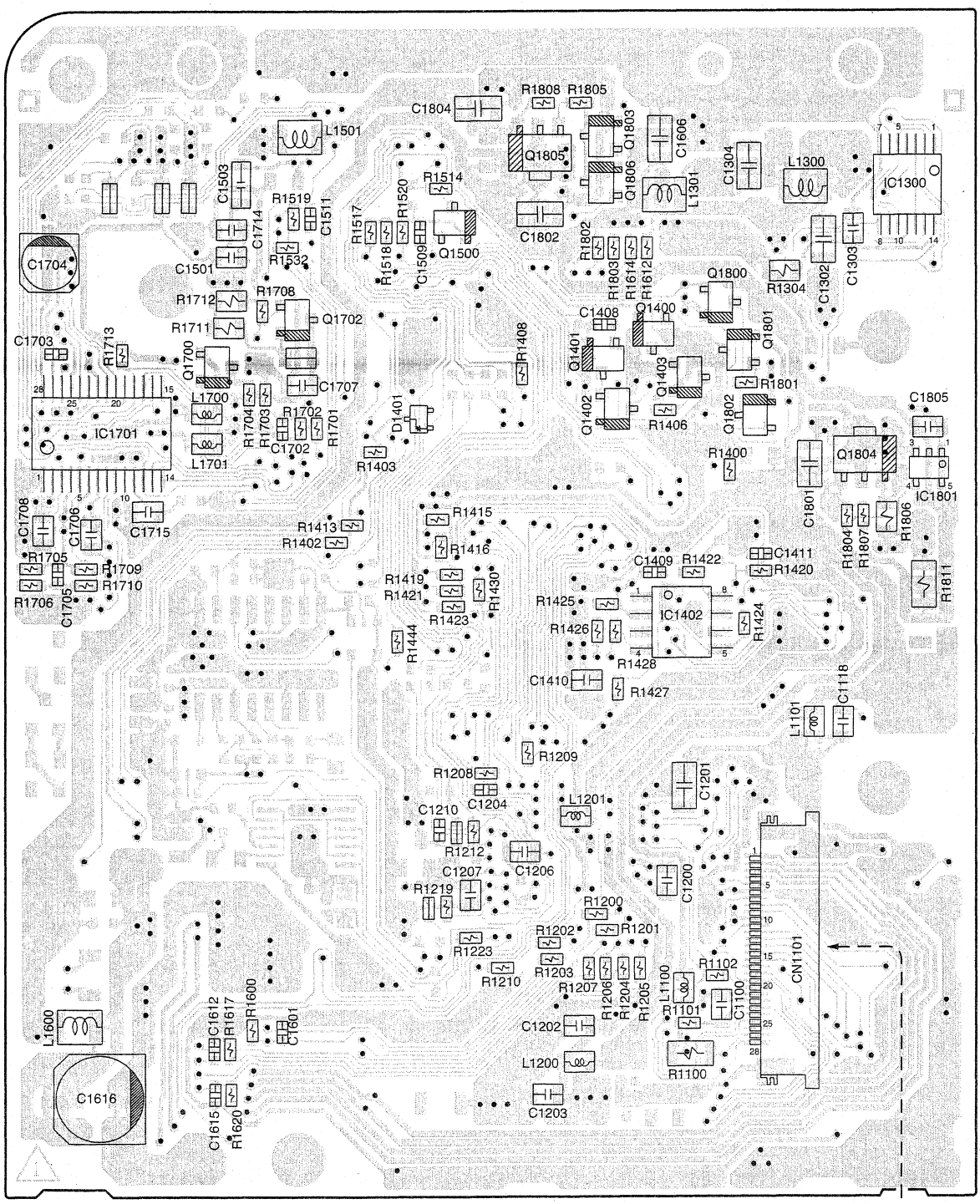

1 kHz 0dB SINEWAVE PLAY

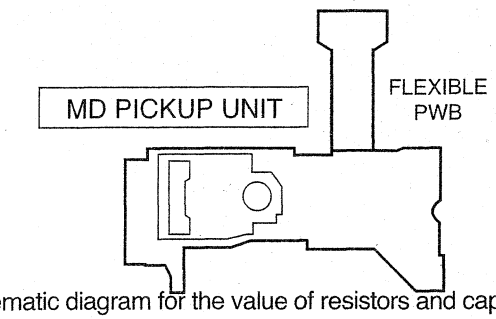

Stopped
NORM: 5M S/s
1997 / 08 / 04 09:47:21
CH1 500mV DC 10:1
200us/div
24 VOUTL VOUTR
Filter SMOOTH OFF BW FULL
Offset CH1 0.000V CH2 0.000V CH3 0.000V CH4 0.000V
Record Len Main 10k Zoom 100
Detay 0.000 000 s
Hold Off MIN
Trigger NORMAL EDGE CH1

# PC BOARD (Component side view)

MD MAIN PWB-A (TOP VIEW)

● **Through hole.**

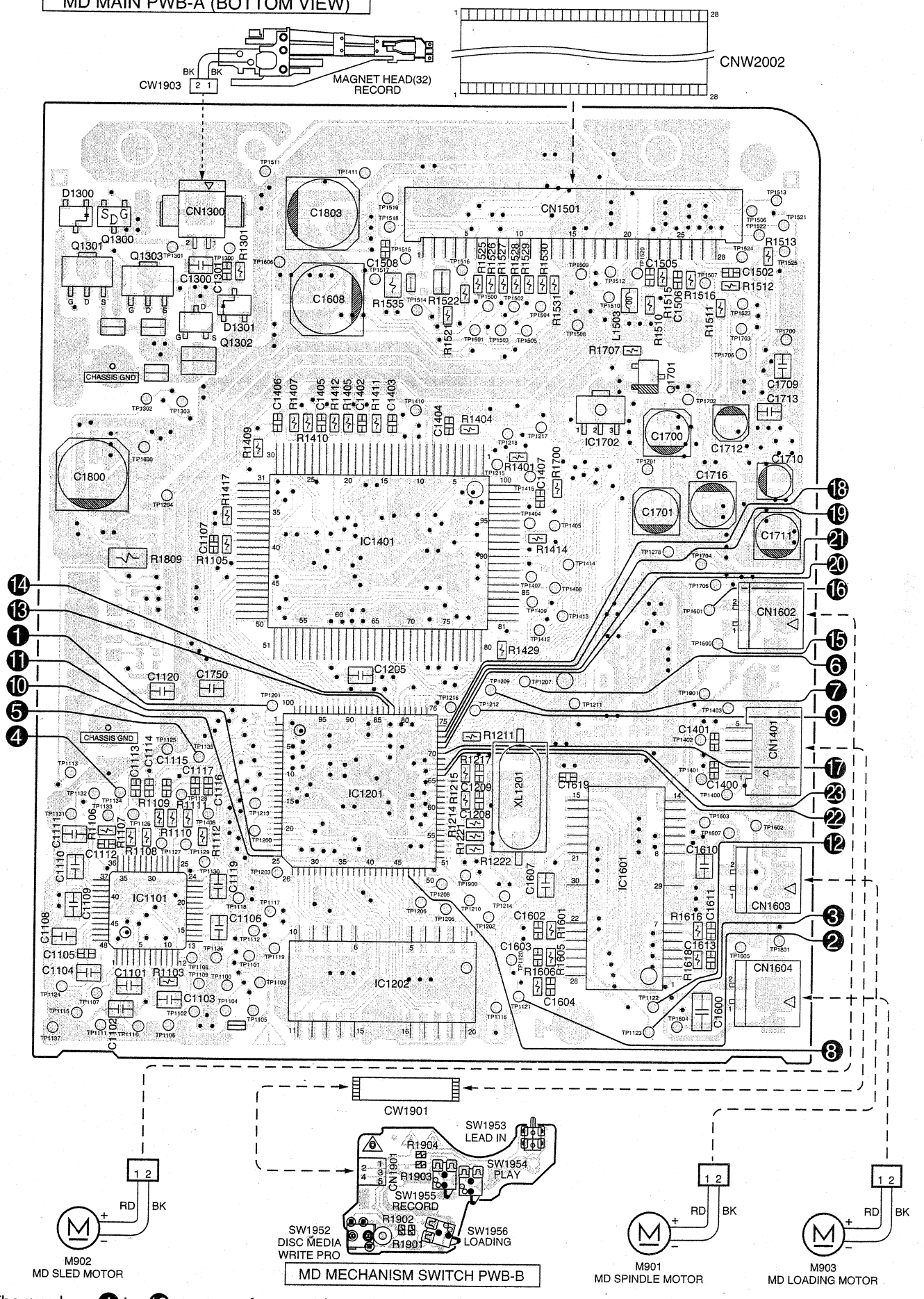



Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (Component side view)

MD MAIN PWB-A (BOTTOM VIEW)

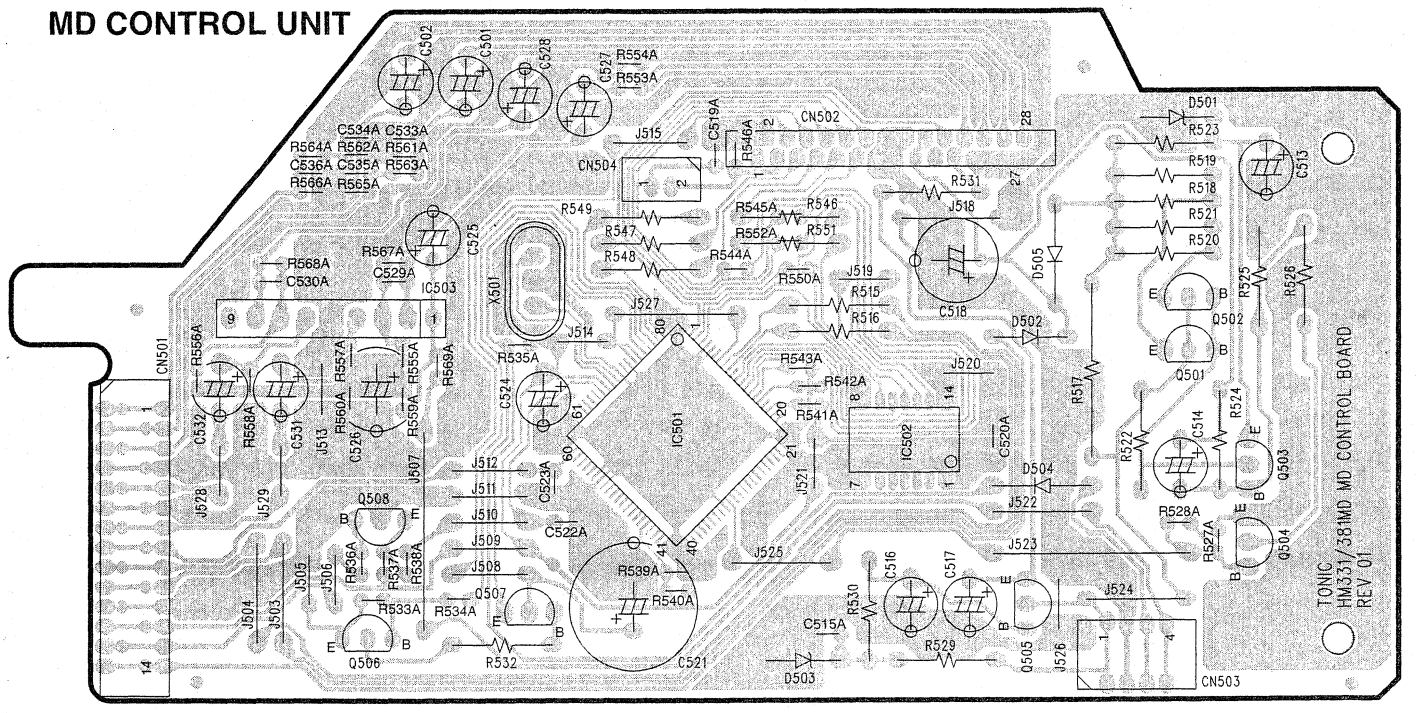



MD MECHANISM SWITCH PWB-B

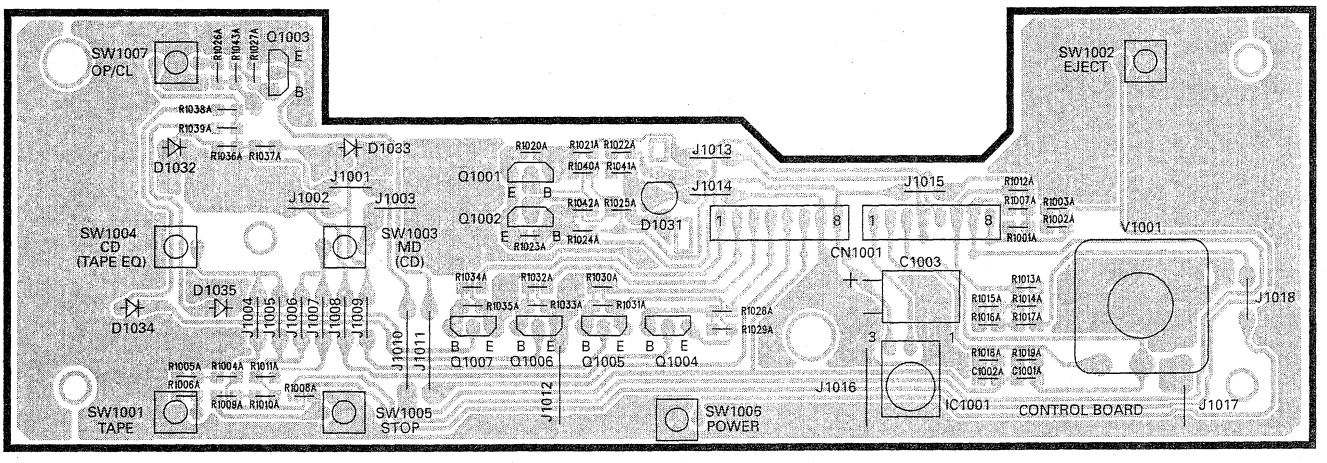
The numbers ❶ to ⑲ are waveform numbers shown in page 12,13.
Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (Component side view)

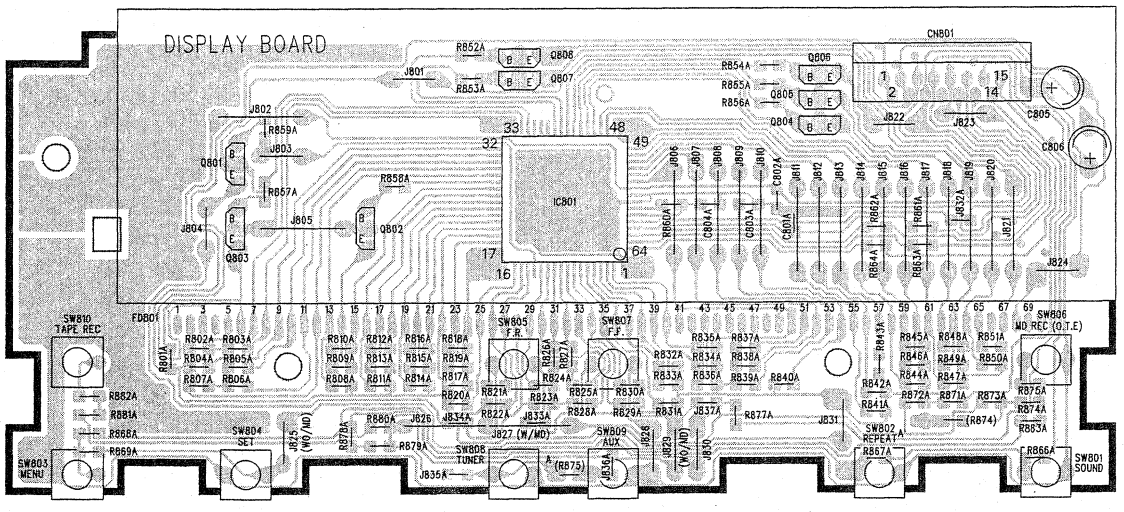
## MD CONTROL UNIT




## KEY CONTROL UNIT




## DISPLAY UNIT

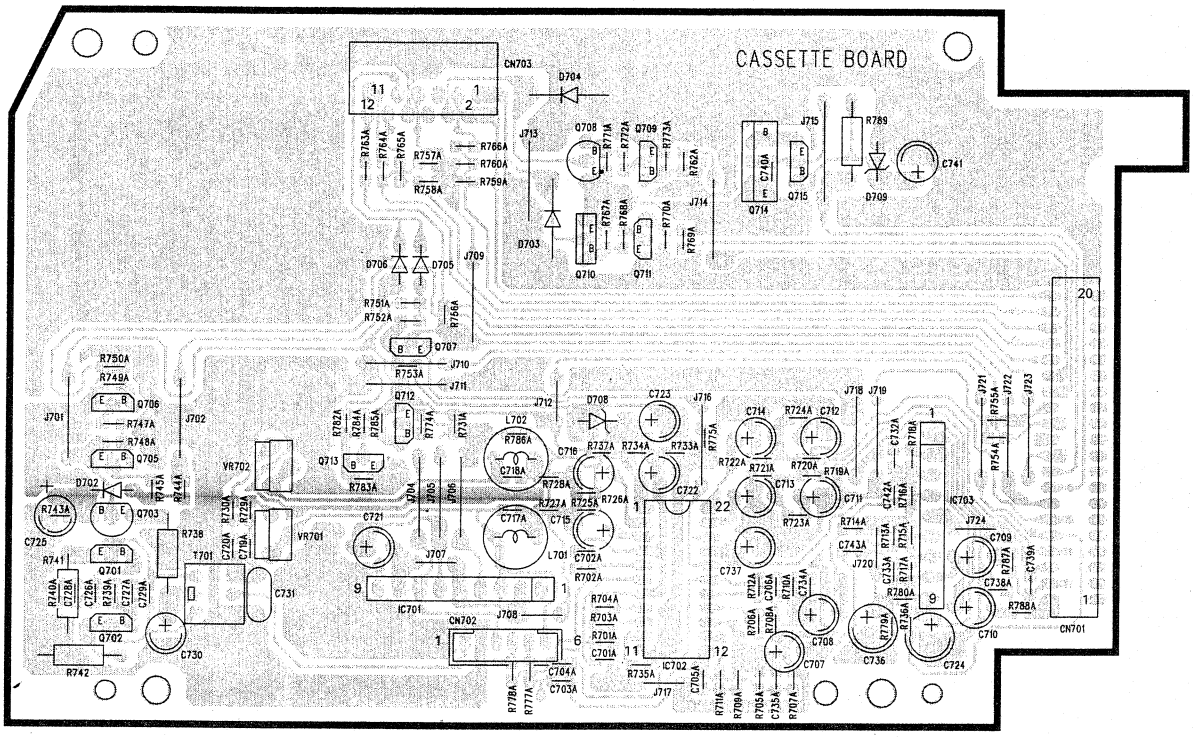




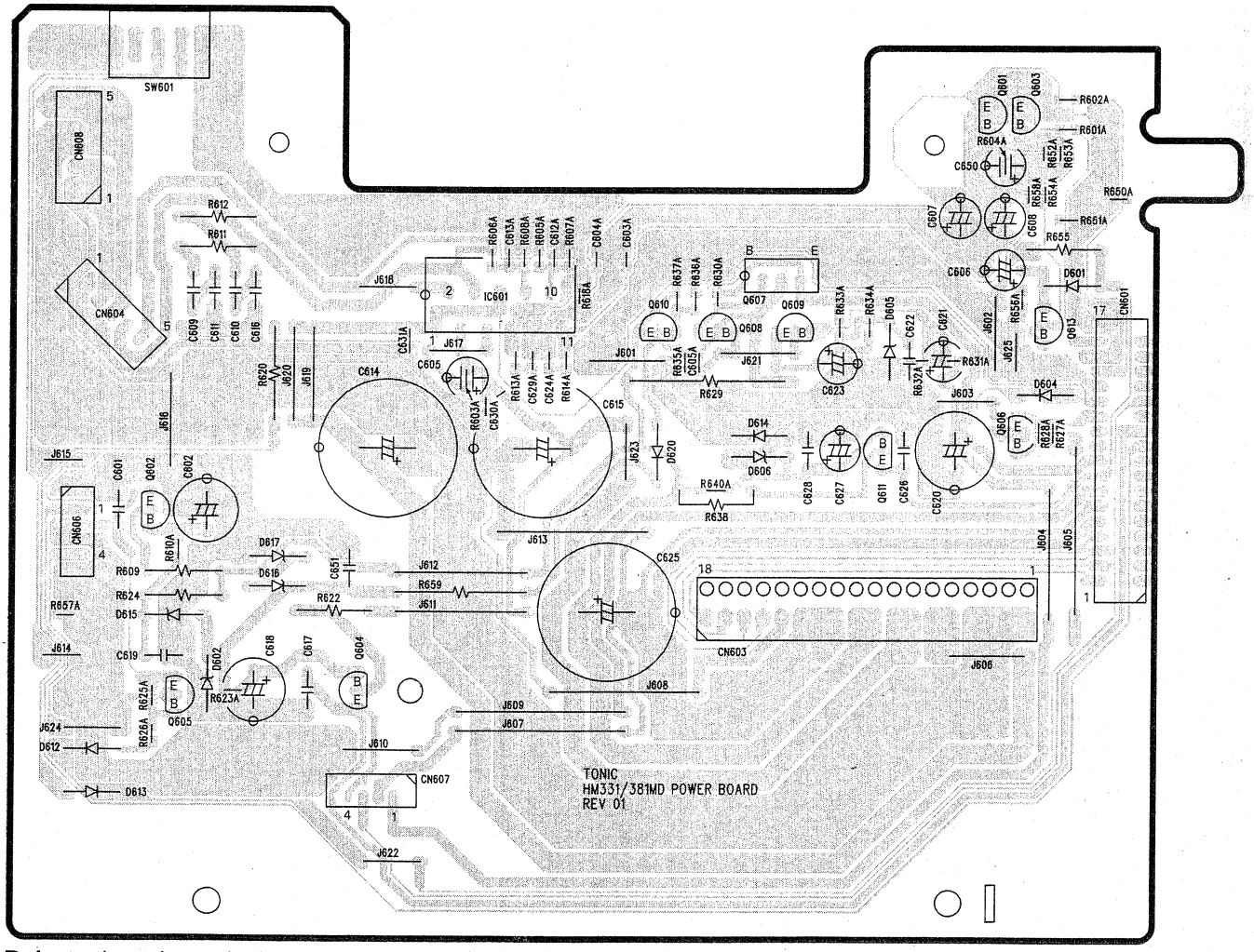

Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (Component side view)

## CASSETTE DECK UNIT



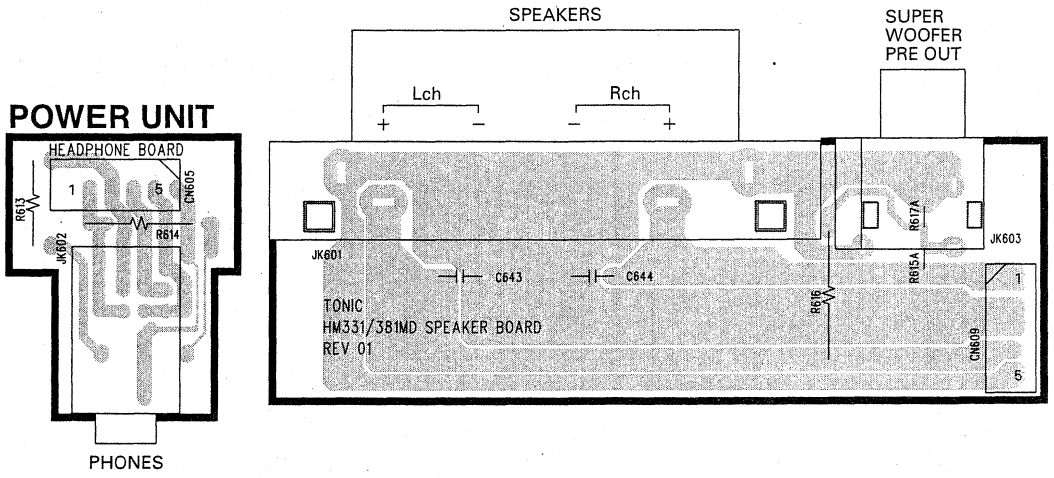

## POWER UNIT



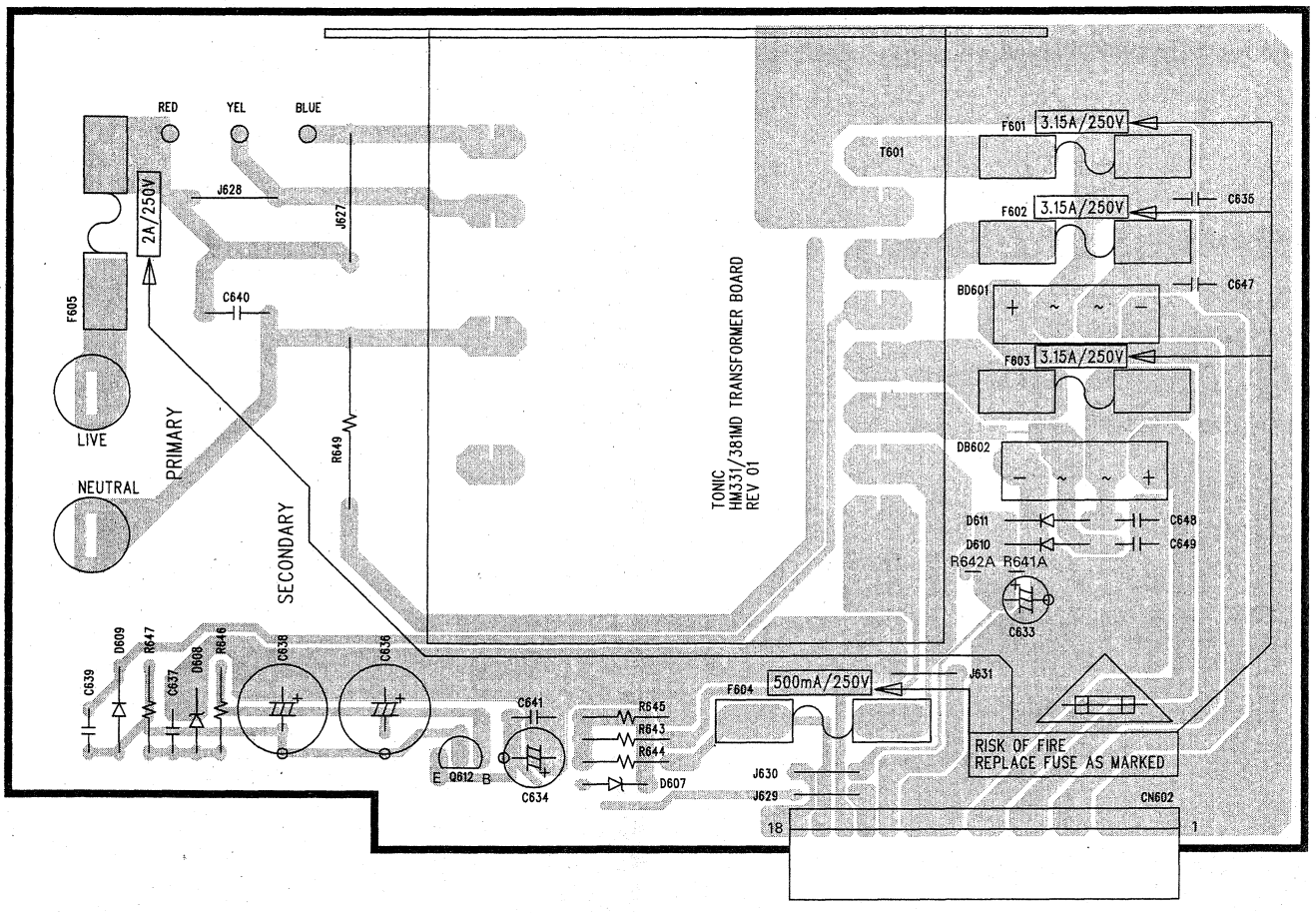

Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD (Component side view)

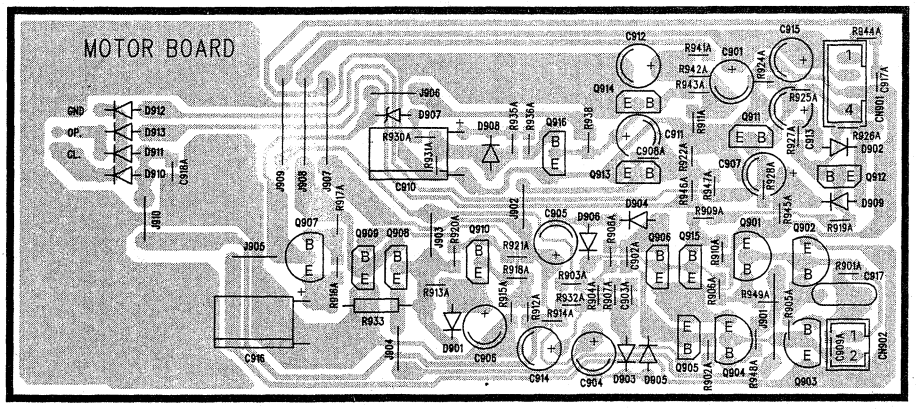
## POWER UNIT




## POWER UNIT



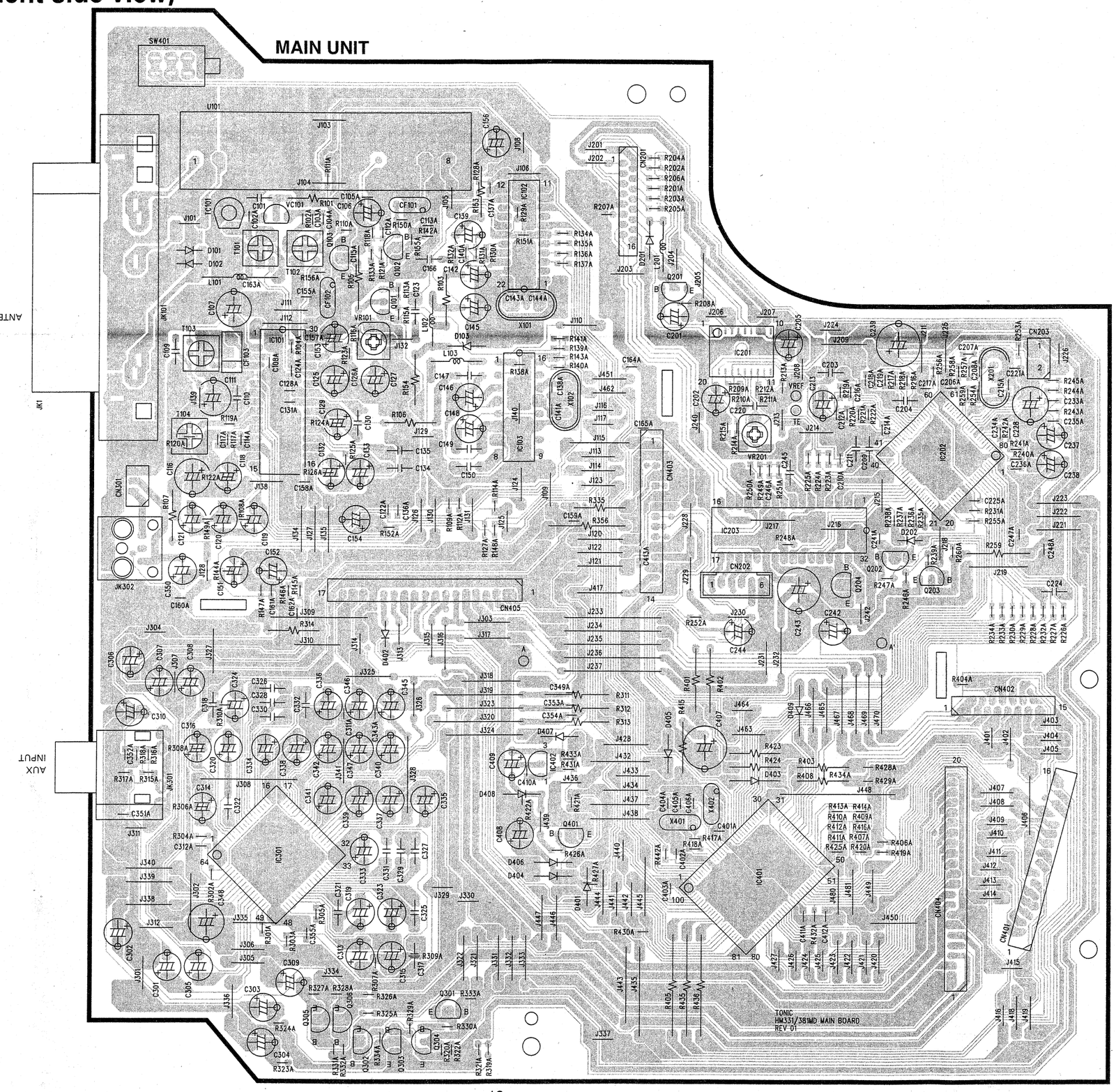

## MAIN UNIT






Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD(Component side view)




Refer to the schematic diagram for the value of resistors and capacitors.

| | |
|---|---|
| IC1101 | : IR3R55 |
| IC1201 | : LR376484 |
| IC1202 | : IX2474AF |
| IC1300 | : 74ACT02F |
| IC1401 | : IX0253AW |
| IC1402 | : S29294A |
| IC1601 | : BA5984FP |
| IC1701 | : UDA1344 |
| IC1702 | : NJM431U |
| IC1801 | : XC62EP32 |
| Q1300,1302 | : 2SK2909 |
| Q1301,1303 | : 2SK1473 |
| Q1400,1401,1701 | : RNC1404 |
| Q1402,1403 | : RN2404 |
| Q1500,1800,1802 | : RNC1407 |
| Q1700 | : 2SC2412KR |
| Q1702,1801 | : 2SA1162G |
| Q1803,1806 | : RN1406 |
| Q1804,1805 | : 2SA1314C |
| D1300,1301 | : SB0209CP |
| D1401 | : SB00703Q |

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE

MECHA. (SW PWB)

MD MECHANISM
(D40-1602-∗5) MDM-98A

PICKUP ⚠

MECHA.
(MOTOR PWB)

IC1101
RF AMP

IC1201
DSP
SERVO
EFM/ACIRC/ATRAC
ENCODER/DECODER

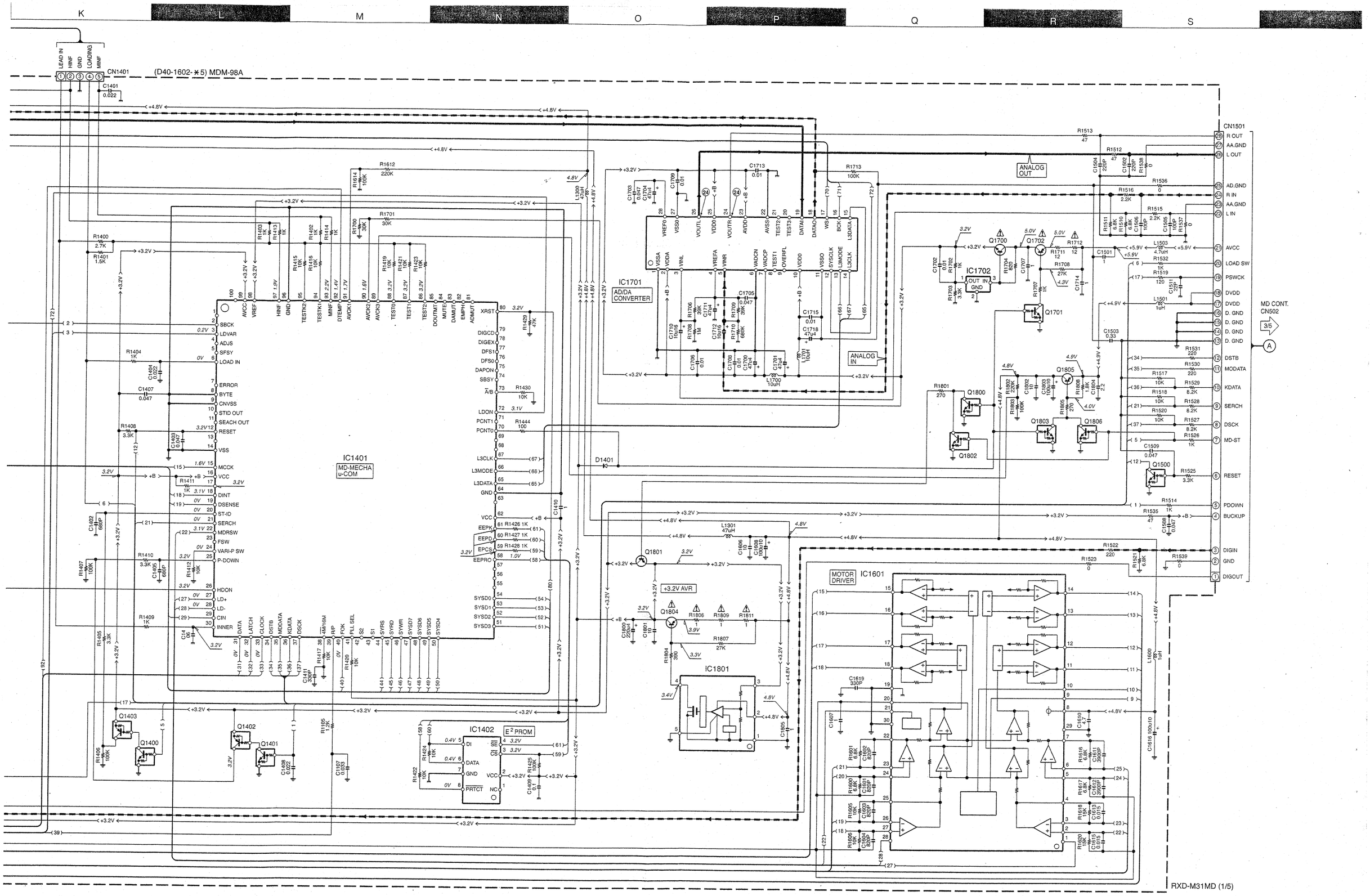
IC1202
4M BIT
D-RAM

HEAD
DRIVER
IC1300

| Wave form | Pin No. |
|---|---|
| ① | 1 |
| ⑥ | 77 |
| ⑦ | 76 |
| ⑧ | 47 |
| ⑨ | 75 |
| ⑩ | 25 |
| ⑬ | 83 |
| ⑭ | 82 |
| ⑰ | 70 |
| ⑱ | 74 |
| ⑲ | 73 |
| ⑳ | 71 |
| ㉑ | 72 |
| ㉒ | 66 |
| ㉓ | 67 |

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product. Refer to the voltage during RECORDABLE MD PLAY unless otherwise specified; The value shown in ( ) is the voltage measured at the moment of STOP. The voltage followed by (REC) refers to the value during MD RECORDING.




# RXD-M31MD

Y39-3212-70

KENWOOD

MAIN BOARD

⚠ PICKUP (KSS-213C)

IC101 : LA1837
IC102 : LC72131
IC103 : BU1923
IC201 : CXA1571M
IC202 : CXD2587Q
IC203 : BA5979S
IC301 : LC75396NE
IC401 : M30622MA-198FP
IC402 : PST600F

Q101,103,301,302 : 2SA1317
Q102 : 2SC1923-O
Q201,203 : 2SA984E
Q202,303-306,401 : 2SC3330(S,T)
Q204 : 2SB764(E,F)

D101,102,201,202,401-409 : 1SS133
D103 : MTZJ5.1B

VC101 : SVC342M

| DESTINATION | | C131A | C134, 135 | C163A-165A | R123A |
|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | |
| U.S.A. | K | 470P | 0.022 | YES | 12K |
| CANADA | P | | | | |
| GENERAL MARKET | M | | 0.018 | | 6.8K |
| U.K | T | 180P | | NO | 18K |
| EUROPE | E | | | | |

| DESTINATION | | R150A, 156A | R155A | R423, 424 |
|---|---|---|---|---|
| COUNTRY | ABB. | | | |
| U.S.A. | K | YES | 4.7 | 3.3K |
| CANADA | P | | | |
| GENERAL MARKET | M | | | 100 |
| U.K | T | NO | 0 | NO |
| EUROPE | E | | | |

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE

IC202 DSP (BOTTOM VIEW)

IC203 4CH BTL DRIVER

IC201 CD RF AMP

Q201 LD ON/OFF

MDP PROTECTION

+5V AVR

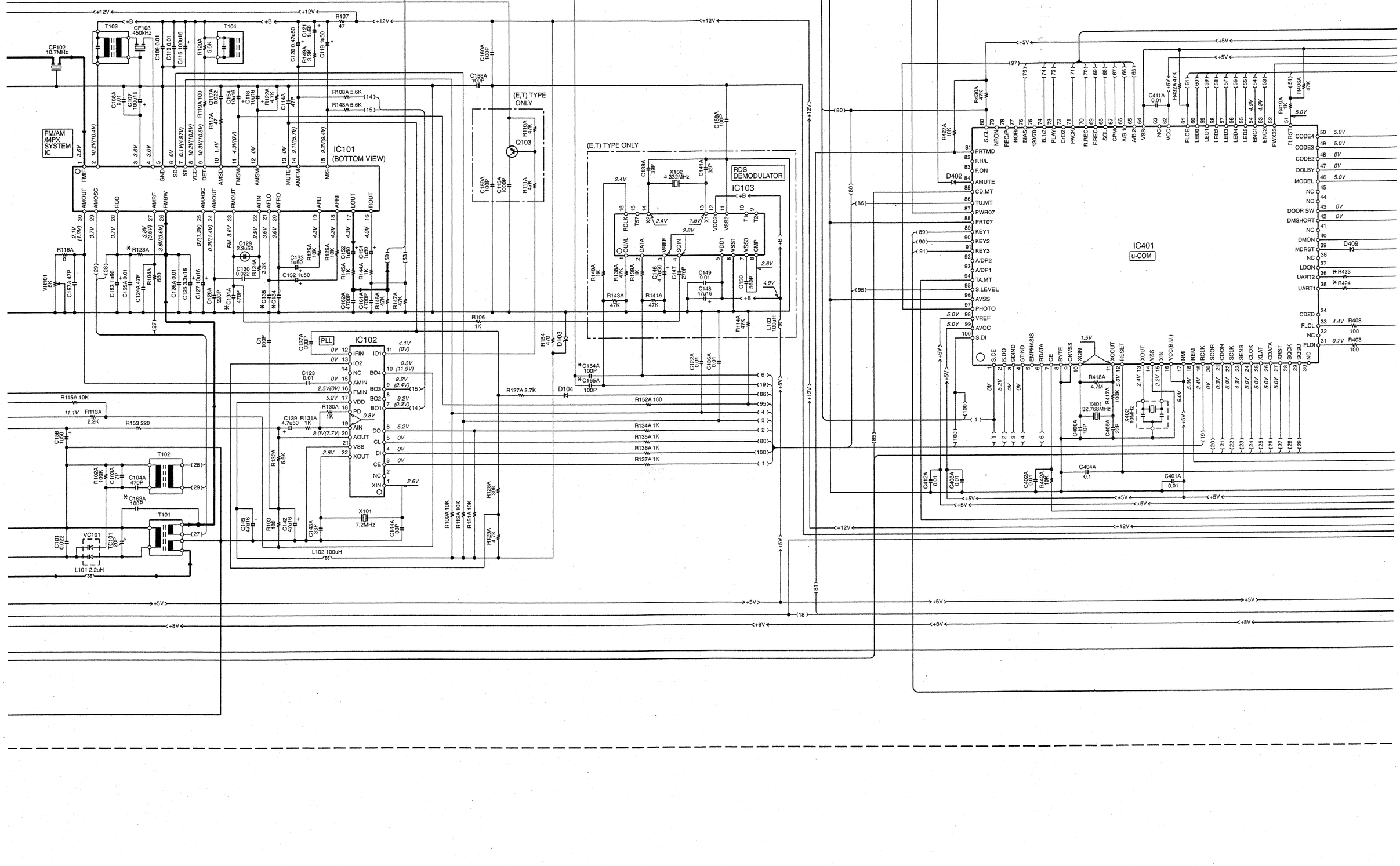
CD LINE MUTE

MUTE ON : 4.8V

RF AMP U101

FE BIAS

MAIN BOARD


FM/AM /MPX SYSTEM
IC101 (BOTTOM VIEW)
IC102
PLL
(E,T) TYPE ONLY
RDS DEMODULATOR
IC103
IC401
u-COM
Q103
D402
D104
D103
T101
T102
T103
T104
CF102 10.7MHz
CF103 450kHz
X101 7.2MHz
X102 4.332MHz
X401 32.768MHz
X402 10MHz
L101 2.2uH
L102 100uH
L103 100uH
VC101
VR101
+12V
+8V
+5V
+B

MAIN BOARD

IC301
INPUT SEL.
MAIN VOL.
TONE
SURROUND
ATT.

IC402
RESET

RESET

TAPE MUTE

CN405
CN404
CN403
CN401
CN402
CN301
CN203

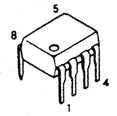
POWER BOARD -CN601 3/5 B
CASSETTE BOARD -CN701 3/5 C
MD CONTROL BOARD -CN504 3/5 D
MD CONTROL BOARD -CN501 3/5 E
KEY BOARD -CN1001/1002 4/5 F
DISPLAY BOARD -CN801 5/5 G

(M) TYPE ONLY

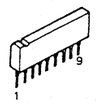
SW401

RN1406
RN2404

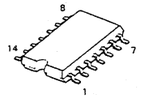
LA6458S



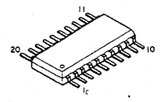

BA3126N



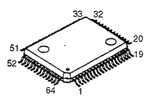

TC74HCT7007AF



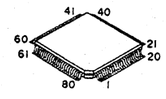

CXA1571M



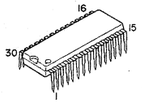

LC75710NE



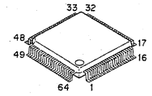

CXD2587Q



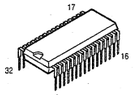

LA1837



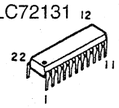

LC75396NE



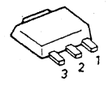

BA5979S



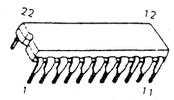

LC72131



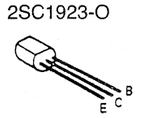

NJM431U




HA12219NT




2SB764
2SC1923-O




**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

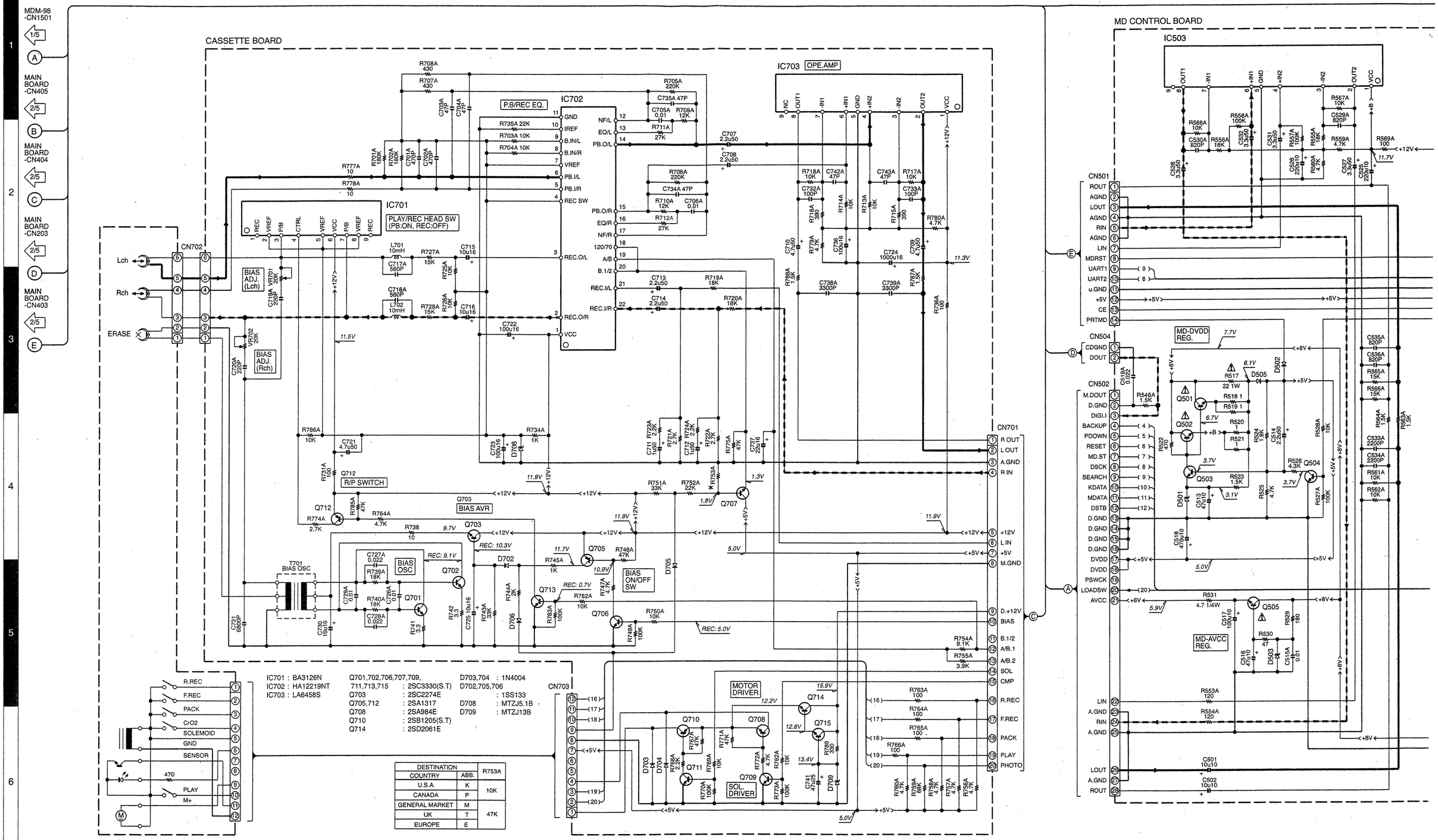
| MODE | CARRIER | MODULATION | | ANT INPUT |
|---|---|---|---|---|
| | | FREQUENCY | DEVIATION | |
| FM | 98MHz | 1kHz | STEREO 67.5kHz 7.5kHz(Pilot) | 60dB |
| AM | 1000(999)kHz | 400Hz | MONO 30% MOD | 60dB |

RXD-M31MD(E) (2/5)

Y39-3212-70

# RXD-M31MD

KENWOOD




**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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POWER BOARD

IC501
MD MECHA CONTROL u-COM

CONTROLLER (CE)

SWITCHING (Q507)

LEVEL SHIFT (3.3V → 5.0V)
IC502

IC601
POWER AMP

MUTING

MUTING DRIVER

+12V AVR

+8V AVR

+5.6V AVR

PANEL OPEN/CLOSE SW

CN601 CN602 CN603 CN604 CN605 CN606 CN607 CN608 CN509 CN503

JK601 JK602 JK603

HEADPHONE

TRANSFORMER BOARD

T601

BD601 BD602

SW603

F601 F602 F603 F604 F605

MOTOR BOARD -CN901

RXD-M31MD (3/5)

SIGNAL LINE
GND LINE
+B ← + B LINE

| DESTINATION | | SW603 | J627 | R603A | R649 | F601~603 | F605 |
|---|---|---|---|---|---|---|---|
| COUNTRY | ABB | | | | | | |
| U.S.A. | K | NO | YES | 15K | YES | 3.15A | 2A |
| CANADA | P | | | | | | |
| GENERAL MARKET | M | YES | NO | 22K | NO | | |
| UK | T | NO | YES | 22K | NO | 2A | 3.15A |
| EUROPE | E | | | | | 3.15A | 2A |

| | | | |
|---|---|---|---|
| IC501 | : uPD78058GC-B20 | D501 | : MTZJ3.3B |
| IC502 | : TC74HCT7007AF | D502,504 | : 1SS133 |
| IC503 | : LA6458S | D503,602,617 | : MTZJ6.8B |
| IC601 | : TDA7265 | D505,609 | : IN4004 |
| | | D601,604,610-614,620 | : 1SS133 |
| Q501,502 | : 2SD400E | D605 | : MTZJ5.1B |
| Q503-506 | : 2SC3330(S.T) | D606,615 | : MTZJ5.6B |
| Q507,508 | : 2SA1317 | D607 | : MTZJ6.2B |
| Q601-603 | : 2SD2144W | D608 | : MTZJ33B |
| Q604,607 | : 2SD2061F | | |
| Q605,610,613 | : 2SA1317 | BD601,602 | : RS402 |
| Q606,609 | : 2SC3330(S.T) | | |
| Q608,611 | : 2SC2274E | | |
| Q612 | : 2SA964E | | |

Y39-3212-70

RXD-M31MD

KENWOOD

POWER BOARD -CN606

3/5

H

MOTOR BOARD

M

CN902

PANEL OPEN SWITCH

SW901

SW902

PANEL CLOSE SWITCH

CN901

OP/CL

+12V

GND

B+(ON/OFF)

Q901,904 : 2SC2274E
Q902,903,907 : 2SA984E
Q905,906,908,909, 911,913-916 : 2SC3330(S,T)
Q910,912 : 2SA1317

D901-906,908-913 : 1SS133
D907 : MTZJ3.3B

| DESTINATION | | C907 |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K | 4.7u50 |
| CANADA | P | |
| GENERAL MARKET | M | |
| UK | T | 10u16 |
| EUROPE | E | |

KEY BOARD

HM381MD

TAPE SW1001

MD EJECT SW1002

MD SW1003

CD SW1004

STOP SW1005

POWER SW1006

REMOTE SENSOR IC1001

VOLUME /JOG V1001

OP/CL SW1007

STAND-BY

GREEN

RED

D1031

CD D1032

MD D1033

REV D1034

FWD D1035

CN1002

CN1001

MAIN BOARD -CN401

2/5

F

LED DRIVER

Q1004-1007

IC1001 : W02-2707-08

Q1001,1002 : 2SA1317
Q1003-1007 : 2SC3330(S,T)

D1031 : B30-2558-08
D1032-1035 : B30-2500-08

GND LINE
+B LINE
−B LINE

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RXD-M31MD (4/5)

Y39-3212-70

# RXD-M31MD

KENWOOD

DISPLAY BOARD

IC801 : LC75710NE

Q801-808 : 2SC3330(S,T)

SIGNAL LINE
GND LINE
+B LINE
-B LINE

FL801

G12

S23 ▷ RANDOM S24 S17 ◁ PGM S18 S13 ▷ REPEAT S14 S15 ◁ ALL S16 S25 ◁ SLEEP S26 S19 A.P.S. S27 O.T.T. S28 PROG. S29 1 S30 2 S20 R·D·S

S21 EON S22 NEWS S31 TP S32 TA S33 PTY

G13 S30 TRACK NO.

G14 S33 S32 S31 TOTAL AUTO TUNED

G15

S33 FM S32 AM S31 PM

S17 STEREO

S9 kHz S6 MHz S7 BEST HITS S10 O.T.E. S25 S24 NR T.E.

S33 S30 S32 S31 S29

S28 CD S27 S26

S23 MD S22 S21

S18 CD S20 S15 TAPE S14 MD S16 S13

S11 REC S12 REC

S29 TITLE S30 SEARCH

S34 MD EDIT S32 LOUD S33 EX.BASS

G16

G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11

S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35

(G1-G11)

S29 S28 S27 S26 S25 S17 S16 S15 S14 S21 S20 S19 S18 S13 S9 S12 S8 S11 S7 S10 S6 S5 S4 S3 S2 S30 S1

(G13,G14)

FOR HM381MD

TAPE REC SW810 R882A 3.3K R881A 3K

AUX SW809 R880A 620

TUNER SW808 R879A 360

F.SKIP SW807 R878A 270 R877A 200

MD REC SW806 R875A 3K R874A 620 R873A 360 R872A 270 R871A 200

R.SKIP SW805

SET SW804 R869A 620

MENU SW803 R868A 360

REPEAT SW802 R867A 270

SOUND SW801 R866A 200

A B C D

CN801

KEY3 15
KEY2 14
KEY1 13
FLCL 12 (63)
FLCE 11 (62)
FLRST 10 (61)
FLDI 9 (64)
VREF 8
u.GND 7
+5V 6
VFL 5
FLAC 4
FLAC 3
FLAC 2
FLAC 1

MAIN BOARD -CN402 2/5 G

R841A 47K (49) 49 G6
R840A 47K (50) 50 G5
R839A 47K (51) 51 G4
R838A 47K (52) 52 G3
R837A 47K (53) 53 G2
R836A 47K (54) 54 G1

-32.2V

55 VFL
56 TEST
57 VSS
58 OSC0 C804A 68P R860A 10K
59 OSC1 C803A 0.047
60 VDD C801A 0.01
61 RST R861A 1K (61)
62 CE R862A 1K (62)
63 CL R863A 1K (63)
64 DI R864A 1K (64)

C802A 0.047

C805 1000 C806 1000

IC801
FL DRIVER

R842A 47K (48) G7
R843A 47K (47) G8
R844A 47K (46) G9
R845A 47K (45) G10
R846A 47K (44) G11
(43) AA8/G12
(42) AA7/G13
(41) AA6/G14
(40) AA5/G15
(39) AA4/G16
(38) AA3
(37) AA2
(36) AA1
(35) AM35
R802A 47K (34) AM34
R803A 47K (33) AM33

AM32 32 R804A 47K (32)
AM31 31 R805A 47K (31)
AM30 30 R806A 47K (30)
AM29 29 R807A 47K (29)
AM28 28 R808A 47K (28)
AM27 27 R810A 47K (27)
AM26 26 R811A 47K (26)
AM25 25 R812A 47K (25)
AM24 24 R813A 47K (24)
AM23 23 R814A 47K (23)
AM22 22 R815A 47K (22)
AM21 21 R816A 47K (21)
AM20 20 R817A 47K (20)
AM19 19 R818A 47K (19)
AM18 18 R819A 47K (18)
AM17 17 (17)

AM1 1 R835A 47K (1)
AM2 2 R834A 47K (2)
AM3 3 R833A 47K (3)
AM4 4 R832A 47K (4)
AM5 5 R831A 47K (5)
AM6 6 R830A 47K (6)
AM7 7 R829A 47K (7)
AM8 8 R828A 47K (8)
AM9 9 R827A 47K (9)
AM10 10 R826A 47K (10)
AM11 11 R825A 47K (11)
AM12 12 R824A 47K (12)
AM13 13 R822A 47K (13)
AM14 14 R821A 47K (14)
AM15 15 R820A 47K (15)
AM16 16 (16)

(39) R852A 1K Q808 R851A 10K (39)
(40) R853A 1K Q807 R850A 10K (40)
(41) R854A 1K Q806 R849A 10K (41)
(42) R855A 1K Q805 R848A 10K (42)
(43) R856A 1K Q804 R847A 10K (43)
(35) R857A 1K Q803 R801A 10K (35)
R858A 1K Q802 R809A 10K (27)
R859A 1K Q801 R823A 10K (13)

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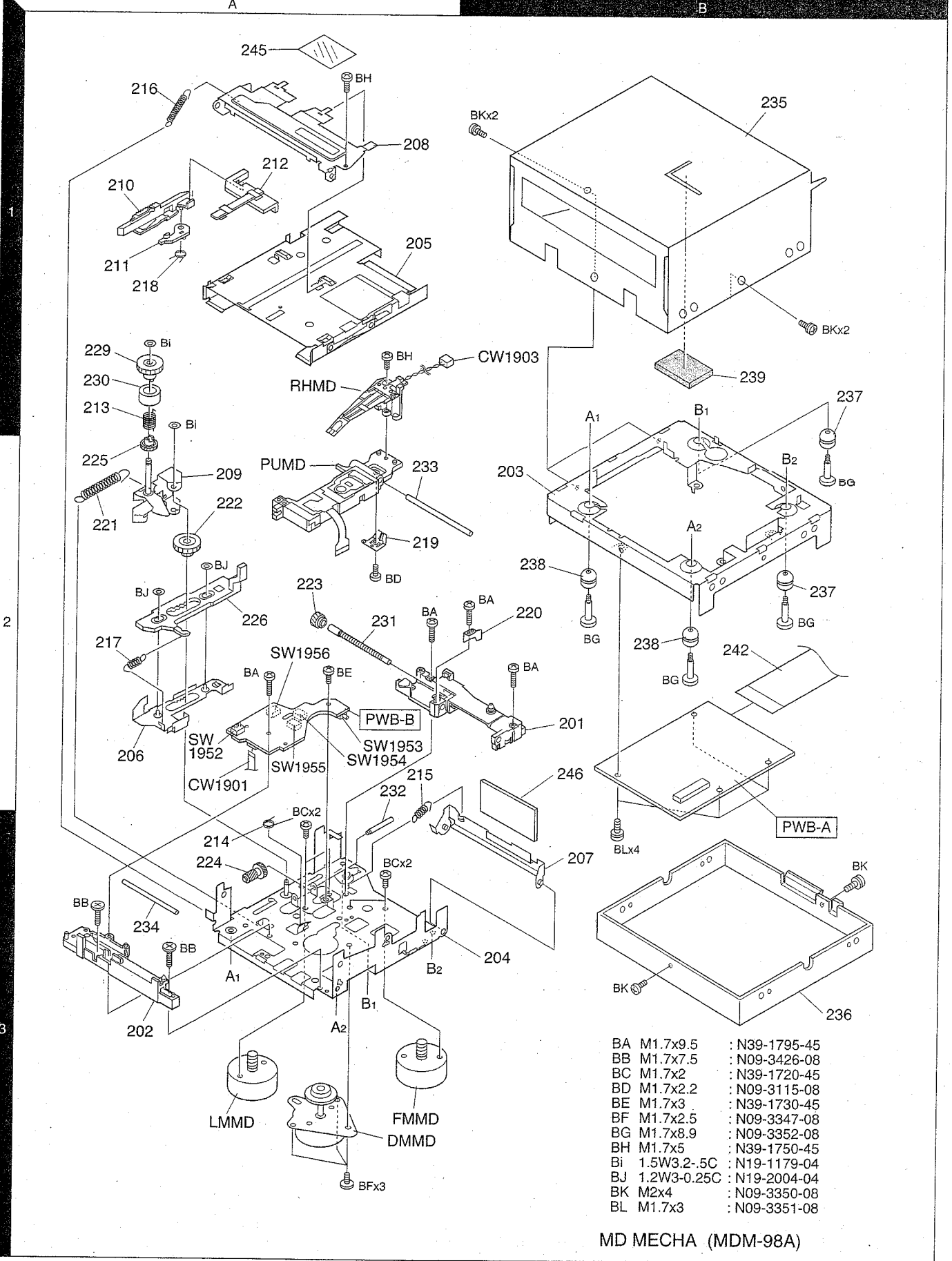
RXD-M31MD (5/5)

Y39-3212-70

RXD-M31MD

KENWOOD

# EXPLODED VIEW (MD MECHANISM)

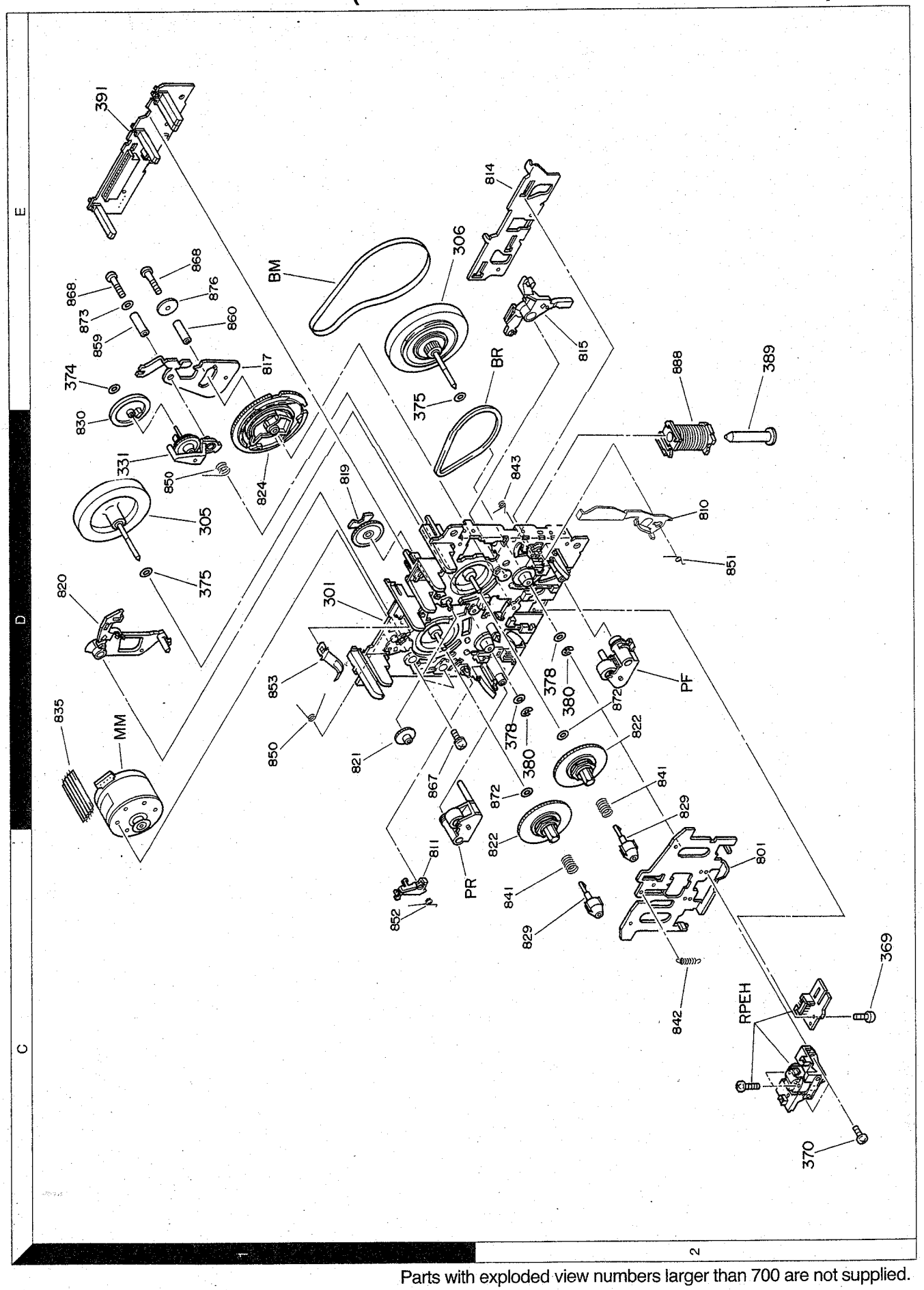



MD MECHA (MDM-98A)

Parts with exploded view numbers larger than 700 are not supplied.

# RXD-M31MD

## EXPLODED VIEW (CASSETTE DECK MECHANISM)

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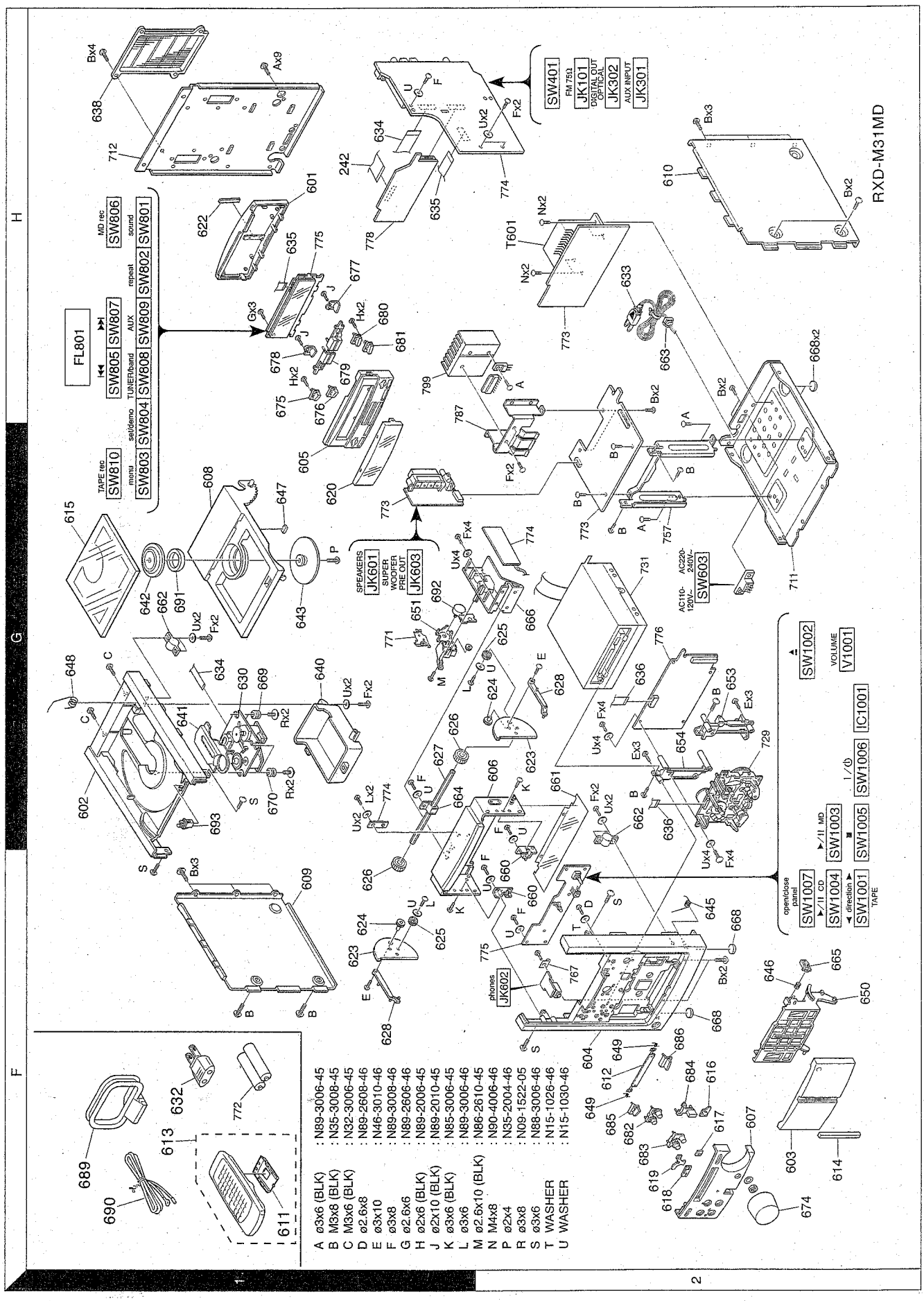
# EXPLODED VIEW (UNIT)

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❶

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| | | | | **RXD-M31MD** | | |
| 601 | 1H | ✻ | A21-3800-08 | PANEL COVER 109-03311-101 | | |
| 602 | 1G | ✻ | A02-2940-08 | TOP CABINET 103-03310-0909 | | |
| 603 | 2F | ✻ | A02-2945-08 | CASS DOOR COVER,108-03311-101 | | |
| 604 | 2F | ✻ | A60-1745-08 | FRONT CABINET 101-03310-101 | | |
| 605 | 1G | | A21-3779-08 | TUNING PANEL 109-03312-001 | | |
| 606 | 2G | ✻ | A21-3801-08 | TOP PANEL 109-03313-1266 | | |
| 607 | 2F | ✻ | A21-3806-08 | CONTROL PANEL 109-03314-2266 | KP | |
| 607 | 2F | ✻ | A21-3807-08 | CONTROL PANEL 109-03314-4266 | MTE | |
| 608 | 1G | ✻ | A52-0375-08 | CD DOOR 113-03310-072 | | |
| 609 | 1F | ✻ | A50-1332-08 | METAL PLATE (L) 180-03311-0909 | | |
| 610 | 2H | ✻ | A50-1337-08 | METAL PLATE (R) 180-03312-0909 | | |
| 611 | 1F | | A09-1114-08 | BATTERY COVER | | |
| 612 | 2F | ✻ | A52-0376-08 | MD DOOR 113-03311-001 | | |
| 613 | 1F | ✻ | A70-1241-05 | REMOTE CONTROL182-03310-001 | KPM | |
| 613 | 1F | ✻ | A70-1287-05 | REMOTE CONTROL182-03310-002 | TE | |
| 614 | 2F | | B10-3524-08 | CASS DOOR LENS 116-03310-000 | | |
| 615 | 1G | ✻ | B10-3555-08 | CD DOOR LENS 116-03311-002 | | |
| 616 | 2F | | B12-0375-08 | SENSOR LENS 117-03310-000 | | |
| 617 | 2F | | B12-0376-08 | LED LENS (MID) 117-03311-000 | | |
| 618 | 2F | | B12-0377-08 | LED LENS (TAPE) 117-03312-000 | | |
| 619 | 2F | | B12-0378-08 | LED LENS (CD/MD) 117-03313-000 | | |
| 620 | 1G | ✻ | B12-0386-08 | DISPLAY LENS 117-03314-003 | | |
| 622 | 1H | ✻ | B03-3857-08 | PLATED BAR 130-03310-087 | | |
| 623 | 1F,2G | | D13-1946-08 | GEAR A 130-03313-110 | | |
| 624 | 1F,2G | | D13-1947-08 | GEAR B 130-03313-210 | | |
| 625 | 1F,2G | | D13-1948-08 | GEAR C 130-03313-310 | | |
| 626 | 1F,2G | | D13-1949-08 | GEAR D 130-03313-410 | | |
| 627 | 1G | | D10-3905-08 | SHAFT (HEXAGON)133-03318-304 | | |
| 628 | 1F,2G | | D10-3906-08 | LEVER 138-03311-010 | | |
| 630 | 1G | | D40-1640-05 | CD MECHANISM KSM-213CDM(SONY) | | |
| ⚠ 632 | 1F | | E03-0115-05 | AC PLUG ADAPTOR | M | |
| ⚠ 633 | 2H | | E30-2928-08 | AC POWER CORD 023-60020-005 | ME | |
| ⚠ 633 | 2H | | E30-2929-08 | AC POWER CORD 023-60040-008 | KP | |
| ⚠ 633 | 2H | | E30-2930-08 | AC POWER CORD 023-60060-003 | T | |
| 634 | 1G,1H | | E35-2429-08 | FLAT CABLE (16P)037-45281-164 | | |
| 635 | 1H | | E35-2430-08 | FLAT CABLE (15P) 037-55271-155 | | |
| 636 | 2G | | E35-2431-08 | FLAT CABLE (12P) 037-55600-125 | | |
| 638 | 1H | | F07-1685-08 | PVC COVER (BLK) 125-03310-010 | | |
| 640 | 1G | | F07-1687-08 | CD COVER 138-03313-010 | | |
| 641 | 1G | | F07-1688-08 | CD COVER(BLK)ABS,161-00213-202 | | |
| 642 | 1G | | J19-6023-08 | CD MAGNET COVER(TOP) 161-00213- | | |
| 643 | 1G | | J11-0850-08 | CD MAGNET COVER(BTM) 161-00213- | | |
| 645 | 2F | | G09-0671-08 | CASS DOOR SPR 133-03314-309 | | |
| 646 | 2F | | G09-0672-08 | DOOR LOCKER SPR,133-03319-335 | | |
| 647 | 1G | | G11-2485-08 | RUBBER (10X5X3) 136-10530-100 | | |
| 648 | 1G | | G09-0674-08 | CD DOOR SPRING 162-03311-314 | | |
| 649 | 2F | ✻ | G09-0675-08 | MD DOOR SPRING 133-03319-302 | | |
| 650 | 2F | | A13-3147-08 | BRACKET (CASS DOOR) 129-03310-0 | | |
| 651 | 1G | | A13-3148-08 | BRACKET (MOTOR) 129-03313-010 | | |
| 653 | 2G | | A13-3150-08 | BRACKET (CASS R) 129-03317-010 | | |
| 654 | 2G | | A13-3151-08 | BRACKET (CASS L) 129-03317-110 | | |
| 660 | 2F | | A13-3152-08 | MOUNTING BRACKET, 129-03319-510 | | |
| 661 | 2G | | F07-1686-08 | HS COVER (BLACK), 129-03319-610 | | |

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**Y**: PX(Far East, Hawaii) **T**: England **E**: Europe **G**: Germany **V**: China (Shanghai)
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❷

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| 662 | 1G,2G | ✻ | D39-0345-08 | DAMPER SET 130-03313-010 | | |
| ⚠ 663 | 2H | | J42-0343-08 | POWER CORD BUSH 130-00000-001 | KP | |
| ⚠ 663 | 2H | | J42-0344-08 | POWER CORD BUSH 130-00000-002 | MTE | |
| 664 | 1G | | D32-0363-08 | STOPPER 130-03312-010 | | |
| 665 | 2F | | D32-0364-08 | CASSETTE LOCKER 130-03318-010 | | |
| 666 | 2G | | A13-3153-08 | MOUNTING BRT(PCB/CD) 133-30331- | | |
| 668 | 2F,2H | | J02-1456-08 | RUBBER FOOT (12.5X3.5) 136-8003 | | |
| 669 | 1G | | J02-1454-08 | SOFT RUBBER 161-07213-001 | | |
| 670 | 1G | | J02-1455-08 | HARD RUBBER 161-07213-101 | | |
| 674 | 2F | ✻ | K29-7690-08 | KNOB (VOLUME) 127-03311-072 | | |
| 675 | 1H | ✻ | K29-7691-08 | KNOB (TAPE REC) 128-03310-002 | | |
| 676 | 1H | ✻ | K29-7692-08 | KNOB (MENU) 128-03310-021 | | |
| 677 | 1H | ✻ | K29-7693-08 | KNOB (REPEAT) 128-03310-102 | | |
| 678 | 1H | ✻ | K29-7694-08 | KNOB (SET/DEMO) 128-03310-202 | | |
| 679 | 1H | ✻ | K29-7695-08 | KNOB (FF/TUNER/AUX) 128-03310-3 | | |
| 680 | 1H | ✻ | K29-7696-08 | KNOB (MD REC) 128-03310-402 | | |
| 681 | 1H | ✻ | K29-7697-08 | KNOB (SOUND) 128-03310-421 | | |
| 682 | 2F | ✻ | K29-7698-08 | KNOB (MD/CD PLAY) 128-03312-002 | | |
| 683 | 2F | ✻ | K29-7699-08 | KNOB (TAPE/STOP) 128-03312-102 | | |
| 684 | 2F | ✻ | K29-7700-08 | KNOB (ON/STANDBY) 128-03312-272 | | |
| 685 | 2F | ✻ | K29-7701-08 | KNOB (PANEL BUTTON) 128-03312-3 | | |
| 686 | 2F | ✻ | K29-7702-08 | KNOB (EJECT) 128-03312-401 | | |
| 689 | 1F | | T90-0846-08 | AM LOOP ANTENNA, 015-82100-001 | | |
| 690 | 1F | | T90-0801-05 | LEAD ANTENNA 064-10001-003 | | |
| 691 | 1G | | T99-0624-08 | CD MAGNET 161-00090-030 | | |
| 692 | 1G | | T42-0953-08 | GEAR MOTOR 158-03310-001 | | |
| 693 | 1G | | D32-0365-08 | CD LOCKER PLASTIC, 130-10618-40 | | |
| - | | | A13-3149-08 | BRACKET (FL) 129-03315-010 | | |
| - | | | B46-0310-03 | WARRANTY CARD 155-13813-0266 | TE | |
| - | | | B46-0328-03 | WARRANTY CARD 155-04711-0266 | K | |
| - | | | B46-0347-03 | WARRANTY CARD 155-11811-2266 | P | |
| - | | ✻ | B58-1643-04 | CAUTION CARD (CASS) 155-13310-1 | | |
| - | | | B59-1434-08 | CAUTION (PANEL) 155-13310-002 | TE | |
| - | | | B59-1435-08 | CAUTION (PANEL) 155-13310-002 | KPM | |
| - | | ✻ | B60-4129-08 | INST BOOKLET 151-13812-0266 | MT | |
| - | | ✻ | B60-4218-08 | INST MANUAL 152-13811-0266 | KP | |
| - | | ✻ | B60-4220-08 | INST BOOKLET 152-13813-0266 | PE | |
| - | | ✻ | B60-4221-08 | INST MANUAL 152-13814-0266 | M | |
| - | | ✻ | B60-4222-08 | INST MANUAL 152-13815-0266 | E | |
| - | | ✻ | B60-4223-08 | INST MANUAL 152-13816-0266 | E | |
| - | | ✻ | B60-4224-08 | INST MANUAL 152-13817-0266 | E | |
| - | | ✻ | B60-4225-08 | INST MANUAL 152-13818-0266 | ME | |
| - | | | H10-7611-08 | POLYFOAM FIXTURE, 149-03310-000 | | |
| - | | | H25-1658-08 | POLYBAG 18X24 150-18024-510 | | |
| - | | ✻ | H50-3323-08 | ITEM CARTON CASE 151-13811-1266 | KP | |
| - | | ✻ | H50-3324-08 | ITEM CARTON CASE 151-13812-1266 | M | |
| - | | ✻ | H50-3325-08 | ITEM CARTON CASE 151-13814-1266 | T | |
| - | | ✻ | H50-3326-08 | ITEM CARTON CASE 151-13815-1266 | E | |
| A | | | N89-3006-45 | SCREW 3X6 BLK BIND TAPTITE | | |
| B | | | N35-3008-45 | SCREW 3X8 BLK BIND MACHIN | | |
| C | | | N32-3006-45 | SCREW 3X6 BLK FLAT MACHIN | | |
| D | | | N89-2608-46 | SCREW 2.6X8 BIND TAPTITE | | |
| E | | | N46-3010-46 | SCREW 3X10 PAN TAPPING | | |
| F | | | N89-3008-46 | SCREW 3X8 BIND TAPTITE | | |
| H | | | N89-2006-45 | SCREW 2X6 BLK BIND TAPTITE | | |

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❸

| Ref. No | Address | New Parts | Parts No. | Description | | | Destination | Remarks |
|---|---|---|---|---|---|---|---|---|
| J | | | N89-2008-45 | SCREW 2X8 BLK BIND TAPTITE | | | | |
| K | | | N85-3006-45 | SCREW 3X8 BLK FLAT TAPTITE(S) | | | | |
| L | | | N89-3006-46 | SCREW 3X6 BIND TAPTITE | | | | |
| N | | | N90-4008-41 | SCREW 4X8 TP MACHIN | | | | |
| P | | | N35-2004-46 | SCREW 2X4 BIND MACHIN | | | | |
| R | | | N09-1522-05 | SCREW 3X8 10mmTP TAPPING | | | | |
| S | | | N88-3006-46 | SCREW 3X6 FLAT TAPTITE | | | | |
| T | | | N15-1026-46 | FLAT WASHER 2.9X7.5X0.5 | | | | |
| ⚠ T601 | 2H | | L07-2771-08 | POWER TRANSFORMER0 18-03817-572 | | | ET | |
| ⚠ T601 | 2H | | L07-2772-08 | POWER TRANSFORMER0 18-03817-522 | | | KP | |
| ⚠ T601 | 2H | | L07-2773-08 | POWER TRANSFORMER0 18-03817-562 | | | M | |
| U | | | N15-1030-46 | FLAT WASHER 3.3X8.0X0.5 | | | | |
| **ELECTRICS PARTS** | | | | | | | | |
| D1031 | | | B30-2558-08 | LED LAMP | 019-10000-001 | | | |
| D1032-35 | | | B30-2500-08 | LED | 019-12000-110 | | | |
| C1 | | | CC45FSL1H101J | CERAMIC | 100PF | J | | |
| C101 | | | CK45FB1H223Z | CERAMIC | 0.022UF | Z | | |
| C103A | | | CC73FSL1H070D | CHIP C | 7.0PF | D | | |
| C104A | | | CK73FB1H471K | CHIP C | 470PF | K | | |
| C105A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C106 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C107 | | | CE04KW1C101M | ELECTRO | 100UF | 16WV | | |
| C108A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C109,110 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C112A,113A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C114A | | | CC73FSL1H470J | CHIP C | 47PF | J | | |
| C115A | | | CK73FB1H102J | CHIP C | 1000PF | J | ET | |
| C116 | | | CE04KW1C101M | ELECTRO | 100UF | 16WV | | |
| C117A | | | CK73FB1E223K | CHIP C | 0.022UF | K | | |
| C118 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C119 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C120 | | | CE04KW1HR47M | ELECTRO | 0.47UF | 50WV | | |
| C121 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C122A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C123 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C124A | | | CC73FSL1H470J | CHIP C | 47PF | J | | |
| C125 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV | | |
| C126A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C127 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C128A | | | CK73FB1H221J | CHIP C | 220PF | J | | |
| C129 | | | CE04HW1H2R2M | NP-ELEC | 2.2UF | 50WV | | |
| C130 | | | CK45FB1H223Z | CERAMIC | 0.022UF | Z | | |
| C131A | | | CK73FB1H181J | CHIP C | 180PF | J | ET | |
| C131A | | | CK73FB1H471K | CHIP C | 470PF | K | KPM | |
| C132,133 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C134,135 | | | CQ93FMG1H183J | MYLAR | 0.018UF | J | MET | |
| C134,135 | | | CQ93FMG1H223J | MYLAR | 0.022UF | J | KP | |
| C136A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C137A | | | CC73FCH1H331J | CHIP C | 330PF | J | | |
| C138A | | | CC73FCH1H390J | CHIP C | 39PF | J | ET | |
| C139 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C141A | | | CC73FCH1H330J | CHIP C | 33PF | J | ET | |
| C142 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | | |
| C143A,144A | | | CC73FCH1H330J | CHIP C | 33PF | J | | |

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|---|---|---|---|---|---|---|---|---|
| C145 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | | |
| C146 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | ET | |
| C147 | | | CC45FSL1H271J | CERAMIC | 270PF | J | ET | |
| C148 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | ET | |
| C149 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | ET | |
| C150 | | | CC45FSH1H561J | CERAMIC | 560PF | J | ET | |
| C151-153 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C154 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C155A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C156 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C157A | | | CC73FSL1H470J | CHIP C | 47PF | J | | |
| C158A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C159A | | | CC73FSL1H101J | CHIP C | 100PF | J | ET | |
| C160A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C161A,162A | | | CK73FB1H472K | CHIP C | 4700PF | K | | |
| C163A-165A | | | CC73FSL1H101J | CHIP C | 100PF | J | KPM | |
| C201,202 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C203 | | | CK45FB1H472K | CERAMIC | 4700PF | K | | |
| C204 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C205 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C206A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C207A | | | CK73FB1H471K | CHIP C | 470PF | K | | |
| C208A | | | CC73FSL1H470J | CHIP C | 47PF | J | | |
| C209 | | | CC45FSL1H221J | CERAMIC | 220PF | J | | |
| C210A | | | CK73FB1H471K | CHIP C | 470PF | K | | |
| C211A | | | CK45FB1H104Z | CERAMIC | 0.10UF | Z | | |
| C212A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C213 | | | CE04KW1HR47M | ELECTRO | 0.47UF | 50WV | | |
| C214A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C215A | | | CC73FCH1H240J | CHIP C | 24PF | J | | |
| C216A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C217A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C218A | | | CK73FB1H152K | CHIP C | 1500PF | K | | |
| C219A | | | CK73FB1H473K | CHIP C | 0.047UF | K | | |
| C220 | | | CC45FSL1H120J | CERAMIC | 12PF | J | | |
| C221A | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C224 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C225A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C228 | | | CE04KW1A471M | ELECTRO | 470UF | 10WV | | |
| C233A,234A | | | CK73FB1H271J | CHIP C | 270PF | J | | |
| C235A,236A | | | CK73FB1H102J | CHIP C | 1000PF | J | | |
| C237,238 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C239 | | | CE04KW1A471M | ELECTRO | 470UF | 10WV | | |
| C241A | | | CK73FB1E333K | CHIP C | 0.033UF | K | | |
| C242 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C243 | | | CE04KW1A471M | ELECTRO | 470UF | 10WV | | |
| C244 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C245 | | | CK45FB1H104Z | CERAMIC | 0.10UF | Z | | |
| C246A-248A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C301 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C302 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C303,304 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C305,306 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C307,308 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C309 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |

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|---|---|---|---|---|---|---|---|---|
| C310 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C311A,312A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C313,314 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C315,316 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C317,318 | | | CK45FB1H473Z | CERAMIC | 0.047UF | Z | | |
| C319,320 | | | CE04KW1HR47M | ELECTRO | 0.47UF | 50WV | | |
| C321,322 | | | CK45FF1H563Z | CERAMIC | 0.056UF | Z | | |
| C323,324 | | | CE04KW1HR47M | ELECTRO | 0.47UF | 50WV | | |
| C325,326 | | | CK45FB1H273K | CERAMIC | 0.027UF | K | | |
| C327,328 | | | CK45FF1H563Z | CERAMIC | 0.056UF | Z | | |
| C329,330 | | | CK45FB1H222K | CERAMIC | 2200PF | K | | |
| C331,332 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C333,334 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C335-342 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C343A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C345,346 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C347 | | | CE04KW1C220M | ELECTRO | 22UF | 16WV | | |
| C348 | | | CE04KW1C101M | ELECTRO | 100UF | 16WV | | |
| C349A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C350 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | M | |
| C351A,352A | | | CK73FB1H271J | CHIP C | 270PF | J | | |
| C353A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C354A | | | CK73FB1H471K | CHIP C | 470PF | K | | |
| C355A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C401A-403A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C404A | | | CK73FB1E104K | CHIP C | 0.10UF | K | | |
| C405A | | | CC73FCH1H220J | CHIP C | 22PF | J | | |
| C406A | | | CC73FCH1H180J | CHIP C | 18PF | J | | |
| C407 | | | CE04KW1A471M | ELECTRO | 470UF | 10WV | | |
| C408 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C409 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C410A-412A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C413A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C501,502 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C513 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | | |
| C514 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C515A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C516 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | | |
| C517 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C518 | | | CE04KW1A471M | ELECTRO | 470UF | 10WV | | |
| C519A | | | CK73FB1E223K | CHIP C | 0.022UF | K | | |
| C520A | | | CK73FB1E104K | CHIP C | 0.10UF | K | | |
| C521 | | | C90-1827-05 | ELECTRO | 0.047F | 5.5WV | | |
| C522A,523A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C524 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | | |
| C525,526 | | | CE04KW1C221M | ELECTRO | 220UF | 16WV | | |
| C527,528 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV | | |
| C529A,530A | | | CK73FB1H821J | CHIP C | 820PF | J | | |
| C531,532 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV | | |
| C533A,534A | | | CK73FB1E222K | CHIP C | 2200PF | K | | |
| C535A,536 | | | CK73FB1H821J | CHIP C | 820PF | J | | |
| C601 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C602 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV | | |
| C603A,604A | | | CK73FB1H221J | CHIP C | 220PF | J | | |
| C605 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |

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|---|---|---|---|---|---|---|---|---|
| C605A | | | CK73FB1H102K | CHIP C | 1000PF | K | | |
| C606 | | | CE04KW1A221M | ELECTRO | 220UF | 10WV | | |
| C607,608 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C609-611 | | | CK45FB1H224Z | CERAMIC | 0.22UF | Z | | |
| C612A,613A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C614,615 | | | CE04KW1E332M | ELECTRO | 3300UF | 25WV | | |
| C616 | | | CK45FB1H224Z | CERAMIC | 0.22UF | Z | | |
| C617 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C618 | | | CE04KW1C471M | ELECTRO | 470UF | 16WV | | |
| C620 | | | CE04KW1A471M | ELECTRO | 470UF | 10WV | | |
| C621 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C623 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV | | |
| C625 | | | CE04KW1E472M | ELECTRO | 4700UF | 25WV | | |
| C626 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C627 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV | | |
| C630A,631A | | | CK45FB1H104Z | CERAMIC | 0.10UF | Z | | |
| C633 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C634 | | | CE04KW1H330M | ELECTRO | 33UF | 50WV | | |
| C635 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C636 | | | CE04KW1H101M | ELECTRO | 100UF | 50WV | | |
| C638 | | | CE04KW1H101M | ELECTRO | 100UF | 50WV | | |
| C639 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| ⚠ C640 | | | C90-3862-08 | CERAMIC | 0.0047UF | 250V | | |
| C643,644 | | | CK45FB1H102K | CERAMIC | 1000PF | K | | |
| C647-649 | | | CK45FB1H103Z | CERAMIC | 0.010UF | Z | | |
| C650 | | | CE04KW1E100M | ELECTRO | 10UF | 25WV | | |
| C701A,702A | | | CK73FB1H471J | CHIP C | 470PF | J | | |
| C703A,704A | | | CC73FSL1H470J | CHIP C | 47PF | J | | |
| C705A,706A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C707,708 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C709,710 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C711,712 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C713,714 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C715,716 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C717A,718A | | | CK73FB1H561J | CHIP C | 560PF | J | | |
| C719A,720A | | | CK73FB1H221J | CHIP C | 220PF | J | | |
| C721 | | | CE04KW1H4R7M | ELECTRO | 4.7UF | 50WV | | |
| C722,723 | | | CE04KW1C101M | ELECTRO | 100UF | 16WV | | |
| C724 | | | CE04KW1C102M | ELECTRO | 1000UF | 16WV | | |
| C725 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C726A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C727A,728A | | | CK73FB1E223K | CHIP C | 0.022UF | K | | |
| C729A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C730 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C731 | | | CQ93HP2A682J | MYLAR | 6800PF | J | | |
| C732A,733A | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C734A,735A | | | CC73FSL1H470J | CHIP C | 47PF | J | | |
| C736 | | | CE04KW1C101M | ELECTRO | 100UF | 16WV | | |
| C737 | | | CE04KW1C220M | ELECTRO | 22UF | 16WV | | |
| C738A,739A | | | CK73FB1H332K | CHIP C | 3300PF | K | | |
| C741 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV | | |
| C742A,743A | | | CC73FSL1H470J | CHIP C | 47PF | J | | |
| C801A | | | CK73FB1E103K | CHIP C | 0.010UF | K | | |
| C802A,803A | | | CK73FB1E473K | CHIP C | 0.047UF | K | | |
| C804A | | | CC73FSL1H680J | CHIP C | 68PF | J | | |

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|---|---|---|---|---|---|---|
| C805,806 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C901 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C902A,903A | | | CK73FB1H102K | CHIP C 1000PF K | | |
| C904,905 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C906 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C907 | | | CE04KW1C100M | ELECTRO 10UF 16WV | MTE | |
| C907 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | KP | |
| C908A | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C909 | | | CK45FB1H224Z | CERAMIC 0.22UF Z | | |
| C910 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C911,912 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C913,914 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C915 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C916 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C917A | | | CK45FB1H223Z | CERAMIC 0.022UF Z | | |
| C918A | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C919 | | | CK45FB1H224Z | CERAMIC 0.22UF Z | | |
| C1001A,02A | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C1003 | | | CE04KW1A470M | ELECTRO 47UF 10WV | | |
| TC101 | | | C05-0242-08 | TRIMMER CAP 014-10200-003 | | |
| CN201 | | | E40-8445-08 | FFC CONN (16P) 025-20016-202 | | |
| CN401 | | | E40-8444-08 | PIN ASSY (16P) 025-20016-201 | | |
| CN402 | | | E40-8443-08 | FFC CONN (15P) 025-20015-202 | | |
| CN403 | | ✻ | E40-8467-08 | 14P WAFER 025-20014-203 | | |
| CN404 | | | E40-8447-08 | PIN ASSY (20P) 025-20020-201 | | |
| CN405 | | | E40-8446-08 | PIN ASSY (17P) 025-20017-201 | | |
| CN501 | | ✻ | E40-8468-08 | HEADER 14P 025-20014-301 | | |
| CN502 | | ✻ | E40-8469-08 | FFC CONN (28P) 025-20028-201 | | |
| CN503 | | ✻ | E40-8470-08 | HEADER 4P 025-20004-303 | | |
| CN504 | | ✻ | E40-8471-08 | 2P WAFER 025-20002-210 | | |
| CN601 | | | E35-2426-08 | PIN ASSY (17P) 025-20017-301 | | |
| CN602 | | | E40-8450-08 | PIN ASSY (18P) 025-20018-301 | | |
| CN603 | | | E35-2427-08 | PIN ASSY (18P) 025-20018-201 | | |
| CN604 | | | E35-2425-08 | 5P WAFER 025-20005-203 | | |
| CN606 | | | E35-2424-08 | 4P WAFER 025-20004-202 | | |
| CN607 | | ✻ | E40-8472-08 | 4P WAFER 025-20004-206 | | |
| CN701 | | | E40-8449-08 | PIN ASSY (20P) 025-20020-302 | | |
| CN702 | | ✻ | E35-2453-08 | WIRE HARNESS 025-10006-087 | | |
| CN703 | | | E35-2431-08 | 12P FILM CONNE, 037-55600-125 | | |
| CN703 | | | E40-8448-08 | FFC CONN (12P) 025-20012-302 | | |
| CN801 | | | E35-2428-08 | PIN ASSY (15P) 025-20015-303 | | |
| CN902 | | ✻ | E40-8471-08 | 2P WAFER 025-20002-210 | | |
| JK101 | | | E70-0112-08 | ANT TER.(4P) 046-10300-002 | TE | |
| JK101 | | | E70-0114-08 | ANT TER.(4P) 046-10400-010 | KPM | |
| JK301 | | | E63-1091-08 | RCA JACK (2P) 046-20200-008 | | |
| JK601 | | | E70-0113-08 | SP TERMINAL (4P) 046-10400-009 | | |
| JK602 | | | E11-0398-08 | HEADPHONE JACK 021-23507-100 | | |
| JK603 | | | E63-1092-08 | PHONO JACK (1P) 046-20100-008 | | |
| ⚠ F601-603 | | | F50-0151-08 | FUSE 3.15A/250V, 050-05020-317 | KPME | |
| ⚠ F601-603 | | | F50-0152-08 | FUSE 2A/250V 050-05020-201 | T | |
| ⚠ F604 | | | F50-0149-08 | FUSE 0.5A/250V 050-05020-052 | KPME | |
| ⚠ F604 | | | F50-0153-08 | FUSE 0.5A/250V 050-05020-053 | T | |
| ⚠ F605 | | | F50-0150-08 | FUSE 2A/250V 050-05020-206 | KPME | |
| ⚠ F605 | | | F50-0154-08 | FUSE 3.15A/250V 050-05020-318 | T | |

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❽

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| CF101,102 | | | L72-0536-05 | CERAMIC FILTER 028-10700-023 | TE | |
| CF101,102 | | | L72-0596-05 | CERAMIC FILTER 028-10700-009 | KPM | |
| CF103 | | | L72-0624-08 | CERAMIC FILTER 028-00450-000 | | |
| L101 | | | L40-2291-17 | INDUCTOR 2.2UH 015-70022-007 | | |
| L102 | | | L40-1011-17 | INDUCTOR 100UH 015-70101-007 | | |
| L103 | | | L40-1011-17 | INDUCTOR 100UH 015-70101-007 | ET | |
| L201 | | | L40-1001-17 | INDUCTOR 10UH 015-70100-007 | | |
| L401 | | | L40-1001-17 | INDUCTOR 10UH 015-70100-007 | | |
| L701,702 | | | L40-1035-29 | CHOKE COILS (10MH) 015-00103-00 | | |
| T101 | | | L31-0640-08 | AM ANT COIL 016-21032-104 | | |
| T102 | | | L32-1018-08 | MW OSC COIL 016-20360-023 | | |
| T103 | | | L30-0963-08 | AM IFT 016-27485-041 | | |
| T104 | | | L30-0962-08 | FM IFT 016-22373-102 | | |
| T701 | | | L32-1019-08 | BIAS OSC COIL 016-23841-103 | | |
| X101 | | | L77-2262-08 | CRYSTAL (7.2MHZ) 052-07200-001 | | |
| X102 | | | L77-2265-08 | CRYSTAL (4.3MHZ) 052-43320-000 | TE | |
| X201 | | | L77-2263-08 | CRYSTAL (16.934MHZ) 052-16934-0 | | |
| X401 | | | L77-2264-08 | CRYSTAL (32.768MHZ) 052-32768-0 | | |
| X402 | | | L78-0705-08 | CERAMIC RESONATOR, 052-01000-10 | | |
| X501 | | ✻ | L78-0709-08 | CERAMIC RESONATOR, 052-05000-10 | | |
| J830A-832A | | | RK73FB2A000J | CHIP R 0 J 1/10W | | |
| J837A | | | RK73FB2A000J | CHIP R 0 J 1/10W | | |
| R55A | | | RK73FB2A183J | CHIP R 18K J 1/10W | | |
| R102A | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R104A | | | RK73FB2A681J | CHIP R 680 J 1/10W | | |
| R108A | | | RK73FB2A562J | CHIP R 5.6K J 1/10W | | |
| R109A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R110A,111A | | | RK73FB2A473J | CHIP R 47K J 1/10W | ET | |
| R112A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R113A | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | | |
| R114A | | | RK73FB2A473J | CHIP R 47K J 1/10W | ET | |
| R115A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R116A | | | RK73FB2A000J | CHIP R 0 J 1/10W | | |
| R117A | | | RK73FB2A470J | CHIP R 47 J 1/10W | | |
| R118A,119A | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R120A | | | RK73FB2A562J | CHIP R 5.6K J 1/10W | | |
| R121A | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R122A | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R123A | | | RK73FB2A123J | CHIP R 12K J 1/10W | KP | |
| R123A | | | RK73FB2A183J | CHIP R 18K J 1/10W | ET | |
| R123A | | | RK73FB2A682J | CHIP R 6.8K J 1/10W | M | |
| R124A | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R125A,126A | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R127A | | | RK73FB2A272J | CHIP R 2.7K J 1/10W | | |
| R128A | | | RK73FB2A393J | CHIP R 39K J 1/10W | | |
| R129A | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R130A,131A | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R132A | | | RK73FB2A562J | CHIP R 5.6K J 1/10W | | |
| R133A | | | RK73FB2A331J | CHIP R 330 J 1/10W | | |
| R134A-137A | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R138A | | | RK73FB2A473J | CHIP R 47K J 1/10W | ET | |
| R139A,140A | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | ET | |
| R141A | | | RK73FB2A473J | CHIP R 47K J 1/10W | ET | |
| R142A | | | RK73FB2A331J | CHIP R 330 J 1/10W | | |
| R143A | | | RK73FB2A473J | CHIP R 47K J 1/10W | ET | |

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⑨

| Ref. No | Address | New Parts | Parts No. | Description | | | | Destination | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| R144A,145A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R146A,147A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R148A | | | RK73FB2A562J | CHIP R | 5.6K | J | 1/10W | | |
| R150A | | | RK73FB2A681J | CHIP R | 680 | J | 1/10W | KPM | |
| R151A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R152A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R155A | | | RK73FB2A000J | CHIP R | 0 | J | 1/10W | ET | |
| R155A | | | RK73FB2A4R7J | CHIP R | 4.7 | J | 1/10W | KPM | |
| R156A | | | RK73FB2A000J | CHIP R | 0 | J | 1/10W | KPM | |
| R201A-204A | | | RK73FB2A683J | CHIP R | 68K | J | 1/10W | | |
| R205A,206A | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R208A | | | RK73FB2A100J | CHIP R | 10 | J | 1/10W | | |
| R209A | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R210A,211A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R212A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R213A | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | | |
| R214A,215A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R216A,217A | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | |
| R218A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R219A | | | RK73FB2A105J | CHIP R | 1.0M | J | 1/10W | | |
| R220A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R221A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R222A | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R223A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R224A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R225A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R226A,227A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R228A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R229A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R230A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R231A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R232A-234A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R235A,236A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R237A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R238A | | | RK73FB2A184J | CHIP R | 180K | J | 1/10W | | |
| R239A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R240A | | | RK73FB2A912J | CHIP R | 9.1K | J | 1/10W | | |
| R241A-244A | | | RK73FB2A822J | CHIP R | 8.2K | J | 1/10W | | |
| R245A | | | RK73FB2A912J | CHIP R | 9.1K | J | 1/10W | | |
| R246A,247A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R248A,249A | | | RK73FB2A474J | CHIP R | 470K | J | 1/10W | | |
| R250A | | | RK73FB2A105J | CHIP R | 1.0M | J | 1/10W | | |
| R251A | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R252A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R253A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R254A | | | RK73FB2A105J | CHIP R | 1.0M | J | 1/10W | | |
| R255A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R256A | | | RK73FB2A100J | CHIP R | 10 | J | 1/10W | | |
| R257A | | | RK73FB2A331J | CHIP R | 330 | J | 1/10W | | |
| R258A | | | RK73FB2A100J | CHIP R | 10 | J | 1/10W | | |
| R259A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R260A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R301A,302A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R303A,304A | | | RK73FB2A822J | CHIP R | 8.2K | J | 1/10W | | |
| R305A-308A | | | RK73FB2A752J | CHIP R | 7.5K | J | 1/10W | | |

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⑩

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|---|---|---|---|---|---|---|---|---|---|
| R309A,310A | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | |
| R315A,316A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R317A,318A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R319A,320A | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R321A,322A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R323A,324A | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R325A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R326A,327A | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R328A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R329A-332A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R333A,334A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R404A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R406A,407A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R412A-414A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R417A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R418A | | | RK73FB2A475J | CHIP R | 4.7M | J | 1/10W | | |
| R419A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R421A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R422A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R425A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R426A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R427A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R428A-430A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R431A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R432A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R433A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R434A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R442A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R517 | | ✻ | R92-1927-08 | FUSE R | 22 | J | 1W | | |
| R527A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R528A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R531 | | | R92-0341-05 | FUSE RESIST | 4.7 | J | 1/4W | | |
| R533A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R534A-538A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R540A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R541A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R542A,543A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R544A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R545A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R546A | | | RK73FB2A152J | CHIP R | 1.5K | J | 1/10W | | |
| R550A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R552A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R553A,554A | | | RK73FB2A121J | CHIP R | 120 | J | 1/10W | | |
| R555A,556A | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R557A,558A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R559A,560A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R561A,562A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R563A,564A | | | RK73FB2A152J | CHIP R | 1.5K | J | 1/10W | | |
| R565A,566A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R567A,568A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R569A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R601A,602A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R603A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | KP | |
| R603A | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | MTE | |
| R604A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |

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⑪

| Ref. No | Address | New Parts | Parts No. | Description | | | | Destination | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| R605A,606A | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R607A,608A | | | RK73FB2A431J | CHIP R | 430 | J | 1/10W | | |
| ⚠ R609 | | | R92-1921-08 | FUSE RESIST | 3.3 | J | 1/4W | | |
| R610A | | | RK73FB2A221J | CHIP R | 220 | J | 1/10W | | |
| R611,612 | | | R92-0341-05 | FUSE RESIST | 4.7 | J | 1/4W | | |
| R615A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R617A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R620A | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| ⚠ R622 | | | R92-1921-08 | FUSE RESIST | 3.3 | J | 1/4W | | |
| R623A | | | RK73FB2A221J | CHIP R | 220 | J | 1/10W | | |
| R625A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R626A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R627A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R628A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| ⚠ R629 | | | R92-1928-08 | FUSE RESIST | 0.22 | J | 2W | | |
| R630A | | | RK73FB2A821J | CHIP R | 820 | J | 1/10W | | |
| R631A | | | RK73FB2A202J | CHIP R | 2.0K | J | 1/10W | | |
| R632A | | | RK73FB2A562J | CHIP R | 5.6K | J | 1/10W | | |
| R633A | | | RK73FB2A561J | CHIP R | 560 | J | 1/10W | | |
| R634A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R635A | | | RK73FB2A123J | CHIP R | 12K | J | 1/10W | | |
| R636A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R637A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| ⚠ R638 | | | R92-0219-05 | FUSE RESIST | 10 | G | 1/4W | | |
| R640A | | | RK73FB2A681J | CHIP R | 680 | J | 1/10W | | |
| R641A | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R642A | | | RK73FB2A122J | CHIP R | 1.2K | J | 1/10W | | |
| ⚠ R649 | | | R92-1844-05 | CARBON | 3.3M | J | 1/2W | KP | |
| R650A-653A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R654A | | | RK73FB2A182J | CHIP R | 1.8K | J | 1/10W | | |
| R655A-657A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R658A | | | RK73FB2A564J | CHIP R | 560K | J | 1/10W | | |
| R701A,702A | | | RK73FB2A184J | CHIP R | 180K | J | 1/10W | | |
| R703A,704A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R705A,706A | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R707A,708A | | | RK73FB2A431J | CHIP R | 430 | J | 1/10W | | |
| R709A,710A | | | RK73FB2A123J | CHIP R | 12K | J | 1/10W | | |
| R711A,712A | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | | |
| R713A,714A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R715A,716A | | | RK73FB2A391J | CHIP R | 390 | J | 1/10W | | |
| R717A,718A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R719A,720A | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R721A,722A | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | | |
| R723A,724A | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R725A,726A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R727A,728A | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R731A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R734A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R735A | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |
| R736A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R739A,740A | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R741,742 | | | RK73FB2A3R3J | CHIP R | 3.3 | J | 1/10W | | |
| R743A | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R744A | | | RK73FB2A202J | CHIP R | 2.0K | J | 1/10W | | |
| R745A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |

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⑫

| Ref. No | Address | New Parts | Parts No. | Description | | | | Destination | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| R747A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R748A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R749A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R750A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R751A | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R752A | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |
| R753A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | KP | |
| R753A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | MET | |
| R754A | | | RK73FB2A912J | CHIP R | 9.1K | J | 1/10W | | |
| R755A | | | RK73FB2A392J | CHIP R | 3.9K | J | 1/10W | | |
| R756A-758A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R759A | | | RK73FB2A683J | CHIP R | 68K | J | 1/10W | | |
| R760A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R762A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R763A-766A | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R767A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R768A | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R769A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R770A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R771A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R772A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R773A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R774A | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | | |
| R775A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R777A,778A | | | RK73FB2A100J | CHIP R | 10 | J | 1/10W | | |
| R779A,780A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R782A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R783A | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R784A | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R785A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R786A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R787A,788A | | | RK73FB2A152J | CHIP R | 1.5K | J | 1/10W | | |
| R789 | | | RK73FB2A331J | CHIP R | 330 | J | 1/10W | | |
| R801A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R802A-808A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R809A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R810A-822A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R823A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R824A-846A | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R847A-851A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R852A-859A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R860A | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R861A-864A | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R866A | | | RK73FB2A201J | CHIP R | 200 | J | 1/10W | | |
| R867A | | | RK73FB2A271J | CHIP R | 270 | J | 1/10W | | |
| R868A | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | | |
| R869A | | | RK73FB2A621J | CHIP R | 620 | J | 1/10W | | |
| R871A | | | RK73FB2A201J | CHIP R | 200 | J | 1/10W | | |
| R872A | | | RK73FB2A271J | CHIP R | 270 | J | 1/10W | | |
| R873A | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | | |
| R874A | | | RK73FB2A621J | CHIP R | 620 | J | 1/10W | | |
| R875A | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | |
| R877A | | | RK73FB2A201J | CHIP R | 200 | J | 1/10W | | |
| R878A | | | RK73FB2A271J | CHIP R | 270 | J | 1/10W | | |
| R879A | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | | |

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⑬

| Ref. No | Address | New Parts | Parts No. | Description | | | Destination | Remarks |
|---|---|---|---|---|---|---|---|---|
| R880A | | | RK73FB2A621J | CHIP R 620 | J | 1/10W | | |
| R881A | | | RK73FB2A132J | CHIP R 1.3K | J | 1/10W | | |
| R882A | | | RK73FB2A332J | CHIP R 3.3K | J | 1/10W | | |
| R901A | | | RK73FB2A472J | CHIP R 4.7K | J | 1/10W | | |
| R902A | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | | |
| R903A | | | RK73FB2A562J | CHIP R 5.6K | J | 1/10W | | |
| R904A | | | RK73FB2A332J | CHIP R 3.3K | J | 1/10W | | |
| R905A | | | RK73FB2A472J | CHIP R 4.7K | J | 1/10W | | |
| R906A | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | | |
| R907A,908A | | | RK73FB2A683J | CHIP R 68K | J | 1/10W | | |
| R909A | | | RK73FB2A473J | CHIP R 47K | J | 1/10W | | |
| R910A | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | | |
| R911A | | | RK73FB2A104J | CHIP R 100K | J | 1/10W | | |
| R912A | | | RK73FB2A103J | CHIP R 10K | J | 1/10W | | |
| R913A | | | RK73FB2A472J | CHIP R 4.7K | J | 1/10W | | |
| R914A | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | | |
| R915A | | | RK73FB2A682J | CHIP R 6.8K | J | 1/10W | | |
| R916A,917A | | | RK73FB2A472J | CHIP R 4.7K | J | 1/10W | | |
| R918A,919A | | | RK73FB2A103J | CHIP R 10K | J | 1/10W | | |
| R920A | | | RK73FB2A473J | CHIP R 47K | J | 1/10W | | |
| R921A | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | | |
| R922A | | | RK73FB2A104J | CHIP R 100K | J | 1/10W | | |
| R924A | | | RK73FB2A103J | CHIP R 10K | J | 1/10W | | |
| R925A,926A | | | RK73FB2A104J | CHIP R 100K | J | 1/10W | | |
| R927A,928A | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | | |
| R930A | | | RK73FB2A470J | CHIP R 47 | J | 1/10W | | |
| R931A | | | RK73FB2A102J | CHIP R 1.0K | J | 1/10W | | |
| R932A | | | RK73FB2A222J | CHIP R 2.2K | J | 1/10W | | |
| R933 | | | RD14BB2H221J | RD 220 | J | 1/2W | | |
| R935A,936A | | | RK73FB2A103J | CHIP R 10K | J | 1/10W | | |
| R938A | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | | |
| R941A | | | RK73FB2A224J | CHIP R 220K | J | 1/10W | | |
| R942A,943A | | | RK73FB2A473J | CHIP R 47K | J | 1/10W | | |
| R944A | | | RK73FB2A102J | CHIP R 1.0K | J | 1/10W | | |
| R945A | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | | |
| R946A | | | RK73FB2A473J | CHIP R 47K | J | 1/10W | | |
| R947A | | | RK73FB2A333J | CHIP R 33K | J | 1/10W | | |
| R948A,949A | | | RK73FB2A154J | CHIP R 150K | J | 1/10W | | |
| R1001A | | | RK73FB2A122J | CHIP R 1.2K | J | 1/10W | | |
| R1002A | | | RK73FB2A201J | CHIP R 200 | J | 1/10W | | |
| R1003A | | | RK73FB2A271J | CHIP R 270 | J | 1/10W | | |
| R1004A | | | RK73FB2A361J | CHIP R 360 | J | 1/10W | | |
| R1005A | | | RK73FB2A621J | CHIP R 620 | J | 1/10W | | |
| R1006A | | | RK73FB2A132J | CHIP R 1.3K | J | 1/10W | | |
| R1007A | | | RK73FB2A122J | CHIP R 1.2K | J | 1/10W | | |
| R1008A | | | RK73FB2A201J | CHIP R 200 | J | 1/10W | | |
| R1009A | | | RK73FB2A271J | CHIP R 270 | J | 1/10W | | |
| R1010A | | | RK73FB2A361J | CHIP R 360 | J | 1/10W | | |
| R1011A | | | RK73FB2A621J | CHIP R 620 | J | 1/10W | | |
| R1012A | | | RK73FB2A122J | CHIP R 1.2K | J | 1/10W | | |
| R1013A | | | RK73FB2A201J | CHIP R 200 | J | 1/10W | | |
| R1014A | | | RK73FB2A271J | CHIP R 270 | J | 1/10W | | |
| R1015A | | | RK73FB2A361J | CHIP R 360 | J | 1/10W | | |
| R1016A | | | RK73FB2A621J | CHIP R 620 | J | 1/10W | | |
| R1017A | | | RK73FB2A132J | CHIP R 1.3K | J | 1/10W | | |

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|---|---|---|---|---|---|---|---|---|
| R1018A,19A | | | RK73FB2A103J | CHIP R 10K | J | 1/10W | | |
| R1020A,21A | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | | |
| R1022A | | | RK73FB2A331J | CHIP R 330 | J | 1/10W | | |
| R1023A,24A | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | | |
| R1025A | | | RK73FB2A331J | CHIP R 330 | J | 1/10W | | |
| R1026A | | | RK73FB2A102J | CHIP R 1.0K | J | 1/10W | | |
| R1027A | | | RK73FB2A182J | CHIP R 1.8K | J | 1/10W | | |
| R1028A | | | RK73FB2A103J | CHIP R 10K | J | 1/10W | | |
| R1029A | | | RK73FB2A104J | CHIP R 100K | J | 1/10W | | |
| R1030A | | | RK73FB2A103J | CHIP R 10K | J | 1/10W | | |
| R1031A | | | RK73FB2A104J | CHIP R 100K | J | 1/10W | | |
| R1032A | | | RK73FB2A103J | CHIP R 10K | J | 1/10W | | |
| R1033A | | | RK73FB2A104J | CHIP R 100K | J | 1/10W | | |
| R1034A | | | RK73FB2A103J | CHIP R 10K | J | 1/10W | | |
| R1035A | | | RK73FB2A104J | CHIP R 100K | J | 1/10W | | |
| R1036A-39A | | | RK73FB2A331J | CHIP R 330 | J | 1/10W | | |
| R1040A-42A | | | RK73FB2A103J | CHIP R 10K | J | 1/10W | | |
| V1001 | | | T99-0625-08 | ROTARY ENCODER 020-81620-165 | | | | |
| VR101 | | | R32-0085-08 | TRIMMING POT 012-10103-102 | | | | |
| VR201 | | | R32-0084-08 | TRIMMING POT 012-10203-102 | | | | |
| VR701,702 | | | R32-0086-08 | TRIMMING POT 012-10104-201 | | | | |
| SW1001 | | | S70-0053-08 | TACT SWITCH 020-31100-155 | | | | |
| SW1003-7 | | | S70-0053-08 | TACT SWITCH 020-31100-155 | | | | |
| SW401 | | | S68-0123-08 | PUSH SWITCH 020-32204-160 | | | | |
| SW601 | | | S62-0090-08 | SLIDE SWITCH 020-12207-106 | | | | |
| ⚠ SW603 | | | S62-0091-08 | SLIDE SWITCH (AC CHANGE) | | | M | |
| SW801-810 | | | S70-0075-08 | TACT SWITCH 020-31100-162 | | | | |
| SW901,902 | | | S74-0082-08 | DETECTOR SWITCH 020-31100-053 | | | | |
| ⚠ BD601,602 | | | RS402 | BRIDGE RECTIFIER RS402 | | | | |
| D101,102 | | | 1SS133 | SWITCHING DIODE | | | | |
| D103 | | | MTZJ5.1B | ZENER DIODE | | | | |
| D201,202 | | | 1SS133 | SWITCHING DIODE | | | | |
| D401-409 | | | 1SS133 | SWITCHING DIODE | | | | |
| D501 | | | MTZJ3.3B | ZENER DIODE | | | | |
| D502 | | | 1SS133 | SWITCHING DIODE | | | | |
| D503 | | | MTZJ6.8B | ZENER DIODE | | | | |
| D504 | | | 1SS133 | SWITCHING DIODE | | | | |
| ⚠ D505 | | | 1N4004 | DIODE | | | | |
| D601 | | | 1SS133 | SWITCHING DIODE | | | | |
| D602 | | | MTZJ6.8B | ZENER DIODE | | | | |
| D604 | | | 1SS133 | SWITCHING DIODE | | | | |
| D605 | | | MTZJ5.1B | ZENER DIODE | | | | |
| D606 | | | MTZJ5.6B | ZENER DIODE | | | | |
| D607 | | | MTZJ6.2B | ZENER DIODE | | | | |
| D608 | | | MTZJ33B | ZENER DIODE | | | | |
| ⚠ D609 | | | 1N4004 | DIODE | | | | |
| D610-614 | | | 1SS133 | DIODE (SWITCHING) | | | | |
| D615 | | | MTZJ5.6B | ZENER DIODE | | | | |
| D617 | | | MTZJ6.8B | ZENER DIODE | | | | |
| D620 | | | 1SS133 | DIODE (SWITCHING) | | | | |
| D702 | | | 1SS133 | DIODE (SWITCHING) | | | | |
| D703,704 | | | 1N4004 | DIODE | | | | |
| D705-706 | | | 1SS133 | DIODE (SWITCHING) | | | | |

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|---|---|---|---|---|---|---|
| D708 | | | MTZJ5.1B | ZENER DIODE | | |
| D709 | | | MTZJ13B | ZENER DIODE | | |
| D901-906 | | | 1SS133 | SWITCHING DIODE | | |
| D907 | | | MTZJ3.3B | ZENER DIODE | | |
| D908-913 | | | 1SS133 | SWITCHING DIODE | | |
| FL801 | | | CM1829C | FL 049-18293-000 | | |
| IC1001 | | | W02-2707-08 | ELECTRIC MODULE, 061-04481-000 | | |
| IC101 | | | LA1837 | IC(FM/AM SYSTEM IC) | | |
| IC102 | | | LC72131 | IC(PLL FREQUENCY SYNTHESIZER) | | |
| IC103 | | | BU1923F | IC | TE | |
| IC201 | | | CXA1571M | IC(CD RF AMP) | | |
| IC202 | | | CXD2587Q | IC(DAC DSP) | | |
| IC203 | | | BA5979S | IC(4CH BTL) | | |
| IC301 | | | LC75396NE | IC(ELECTRIC VOLUME) | | |
| IC401 | | | M30622MA-198FP | IC | | |
| IC402 | | | PST600F | IC | | |
| IC501 | | | UPD78058GC-B20 | IC | | |
| IC502 | | | TC74HCT7007AF | IC(HEX BUFFER) | | |
| IC503 | | | LA6458S | IC(OP AMP X2) | | |
| ⚠ IC601 | | | TDA7265 | IC | | |
| IC701 | | | BA3126N | IC(HEAD SW) | | |
| IC702 | | | HA12219NT | IC(EQ) | | |
| IC703 | | | LA6458S | IC(OP AMP X2) | | |
| IC801 | | | LC75710NE | IC(VFD DISPLAY DRIVER) | | |
| Q101 | | | 2SA1317 | TRANSISTOR | | |
| Q102 | | | 2SC1923-O | TRANSISTOR | | |
| Q103 | | | 2SA1317 | TRANSISTOR | ET | |
| Q201 | | | 2SA984E | TRANSISTOR | | |
| Q202 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q203 | | | 2SA984E | TRANSISTOR | | |
| ⚠ Q204 | | | 2SB764(E,F) | TRANSISTOR | | |
| Q301,302 | | | 2SA1317 | TRANSISTOR | | |
| Q303-306 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q401 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q501,502 | | | 2SD400E | TRANSISTOR | | |
| Q503-506 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q507,508 | | | 2SA1317 | TRANSISTOR | | |
| ⚠ Q601-603 | | | 2SD2144W | TRANSISTOR | | |
| ⚠ Q604 | | | 2SD2061F | TRANSISTOR | | |
| Q605 | | | 2SA1317 | TRANSISTOR | | |
| Q606 | | | 2SC3330(S,T) | TRANSISTOR | | |
| ⚠ Q607 | | | 2SD2061F | TRANSISTOR | | |
| Q608 | | | 2SC2274E | TRANSISTOR | | |
| Q609 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q610 | | | 2SA1317 | TRANSISTOR | | |
| ⚠ Q611 | | | 2SC2274E | TRANSISTOR | | |
| ⚠ Q612 | | | 2SA984E | TRANSISTOR | | |
| Q613 | | | 2SA1317 | TRANSISTOR | | |
| Q701,702 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q703 | | | 2SC2274E | TRANSISTOR | | |
| Q705 | | | 2SA1317 | TRANSISTOR | | |
| Q706,707 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q708 | | | 2SA984E | TRANSISTOR | | |
| Q709 | | | 2SC3330(S,T) | TRANSISTOR | | |
| Q710 | | | 2SB1205(S,T) | TRANSISTOR | | |

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|---|---|---|---|---|---|---|---|
| Q711 | | | 2SC3330(S,T) | TRANSISTOR | | | |
| Q712 | | | 2SA1317 | TRANSISTOR | | | |
| Q713 | | | 2SC3330(S,T) | TRANSISTOR | | | |
| Q714 | | | 2SD2061E | TRANSISTOR | | | |
| Q715 | | | 2SC3330(S,T) | TRANSISTOR | | | |
| Q801-808 | | | 2SC3330(S,T) | TRANSISTOR | | | |
| Q901 | | | 2SC2274E | TRANSISTOR | | | |
| Q902,903 | | | 2SA984E | TRANSISTOR | | | |
| Q904 | | | 2SC2274E | TRANSISTOR | | | |
| Q905,906 | | | 2SC3330(S,T) | TRANSISTOR | | | |
| Q907 | | | 2SA984E | TRANSISTOR | | | |
| Q908,909 | | | 2SC3330(S,T) | TRANSISTOR | | | |
| Q910 | | | 2SA1317 | TRANSISTOR | | | |
| Q911 | | | 2SC3330(S,T) | TRANSISTOR | | | |
| Q912 | | | 2SA1317 | TRANSISTOR | | | |
| Q913-916 | | | 2SC3330(S,T) | TRANSISTOR | | | |
| Q1001,2 | | | 2SA1317 | TRANSISTOR | | | |
| Q1003-8 | | | 2SC3330U | TRANSISTOR | | | |
| VC101 | | | SVC342L | TUNING DIODES | | | |
| JK302 | | | W02-1114-05 | OPT OUTPUT | 061-00178-001 | M | |
| U101 | | | W02-2706-08 | FM FRONT END | 061-00172-003 | TE | |
| U101 | | | W02-2711-08 | FM FRONT END | 061-00172-002 | KPM | |
| **MD MECHANISM (MDM-98A)** | | | | | | | |
| C1100 | | | C92-0171-08 | CHIP-C | 4.7UF K | | |
| C1101 | | | C92-0205-08 | ELECTRO | 1.0UF 6.3WV | | |
| C1102 | | | CK73FF1C105K | CHIP C | 1.0UF K | | |
| C1103 | | | CK73FB1H273K | CHIP C | 0.027UF K | | |
| C1104 | | | CK73FB1H333K | CHIP C | 0.033UF K | | |
| C1105 | | | CK73FB1H332K | CHIP C | 3300PF K | | |
| C1106 | | | C92-0205-08 | ELECTRO | 1.0UF 6.3WV | | |
| C1107 | | | CK73GB1C333K | CHIP C | 0.033UF K | | |
| C1108 | | | CK73FB1C474K | CHIP C | 0.47UF K | | |
| C1109 | | | C92-0205-08 | ELECTRO | 1.0UF 6.3WV | | |
| C1110 | | | CK73FB1H472K | CHIP C | 4700PF K | | |
| C1111 | | | CK73FB1C474K | CHIP C | 0.47UF K | | |
| C1112 | | | C93-0044-08 | CERAMIC | 330PF J | | |
| C1113-17 | | | C93-0034-08 | CERAMIC | 270PF J | | |
| C1118 | | | CK73FF1C105Z | CHIP C | 1.0UF Z | | |
| C1119 | | | C92-0205-08 | ELECTRO | 1.0UF 6.3WV | | |
| C1120 | | | CK73FF1H103Z | CHIP C | 0.010UF Z | | |
| C1200 | | | CK73FF1C105Z | CHIP C | 1.0UF Z | | |
| C1201 | | | C92-0172-08 | CHIP-C | 10UF K | | |
| C1202,03 | | | CK73FF1C105Z | CHIP C | 1.0UF Z | | |
| C1204 | | | CK73GB1C473K | CHIP C | 0.047UF K | | |
| C1205 | | | CK73FF1C105Z | CHIP C | 1.0UF Z | | |
| C1206 | | | CK73FB1H122K | CHIP C | 1200PF K | | |
| C1207 | | | CK73FF1C105Z | CHIP C | 1.0UF Z | | |
| C1208,09 | | | CC73GCH1H120J | CHIP C | 12PF J | | |
| C1210 | | | CC73GCH1H220J | CHIP C | 22PF J | | |
| C1300 | | | CC73FCH1H121J | CHIP C | 120PF J | | |
| C1301 | | | CK73GB1C273K | CHIP C | 0.027UF K | | |
| C1302 | | | C92-0172-08 | CHIP-C | 10UF K | | |
| C1303 | | | C92-0171-08 | CHIP-C | 4.7UF K | | |
| C1304 | | | C92-0172-08 | CHIP-C | 10UF K | | |

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|---|---|---|---|---|---|---|---|---|
| C1400,01 | | | CK73GB1C223K | CHIP C | 0.022UF | K | | |
| C1402 | | | CK73FB1H681K | CHIP C | 680PF | K | | |
| C1403 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C1404 | | | CK73GB1C223K | CHIP C | 0.022UF | K | | |
| C1405 | | | CK73FB1H681K | CHIP C | 680PF | K | | |
| C1406 | | | CK73GB1C223K | CHIP C | 0.022UF | K | | |
| C1407 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C1408 | | | CK73GB1C223K | CHIP C | 0.022UF | K | | |
| C1409 | | | CK73GF1E104Z | CHIP C | 0.10UF | Z | | |
| C1410 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C1411 | | | C93-0044-08 | CERAMIC | 330PF | J | | |
| C1501 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C1502 | | | CC73GCH1H221J | CHIP C | 220PF | J | | |
| C1503 | | | CK73EB1C334K | CHIP C | 0.33UF | K | | |
| C1504 | | | CC73GCH1H221J | CHIP C | 220PF | J | | |
| C1505,06 | | | CC73GCH1H101J | CHIP C | 100PF | J | | |
| C1508,09 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C1511 | | | CC73GCH1H220J | CHIP C | 22PF | J | | |
| C1600 | | | CK73EF1C105Z | CHIP C | 1.0UF | Z | | |
| C1601-04 | | | CC73GSL1H821J | CHIP C | 820PF | J | | |
| C1606 | | | C92-0172-08 | CHIP-C | 10UF | K | | |
| C1607 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C1608 | | | C92-0151-08 | ELECTRO | 100UF | 10WV | | |
| C1610 | | | C92-0171-08 | CHIP-C | 4.7UF | K | | |
| C1611,12 | | | CK73FB1H822K | CHIP C | 8200PF | K | | |
| C1613 | | | CK73GB1E153K | CHIP C | 0.015UF | K | | |
| C1615 | | | CK73GB1E153K | CHIP C | 0.015UF | K | | |
| C1616 | | | C92-0151-08 | ELECTRO | 100UF | 10WV | | |
| C1619 | | | C93-0044-08 | CERAMIC | 330PF | J | | |
| C1700,01 | | | C92-0162-08 | ELECTRO | 47UF | 4WV | | |
| C1702 | | | C93-0035-08 | CERAMIC | 0.01UF | K | | |
| C1703 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C1704 | | | C92-0162-08 | ELECTRO | 47UF | 4WV | | |
| C1705 | | | CK73GB1C473K | CHIP C | 0.047UF | K | | |
| C1706 | | | CK73FF1H103Z | CHIP C | 0.010UF | Z | | |
| C1707 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C1708,09 | | | CK73FF1H103Z | CHIP C | 0.010UF | Z | | |
| C1710 | | | C92-0173-08 | ELECTRO | 10UF | 16WV | | |
| C1711 | | | C92-0162-08 | ELECTRO | 47UF | 4WV | | |
| C1712 | | | C92-0173-08 | ELECTRO | 10UF | 16WV | | |
| C1713 | | | CK73FF1H103Z | CHIP C | 0.010UF | Z | | |
| C1714 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C1715 | | | CK73FF1H103Z | CHIP C | 0.010UF | Z | | |
| C1716 | | | C92-0162-08 | ELECTRO | 47UF | 4WV | | |
| C1800 | | | C92-0174-08 | ELECTRO | 220UF | 4WV | | |
| C1801,02 | | | C92-0172-08 | CHIP-C | 10UF | K | | |
| C1803 | | | C92-0151-08 | ELECTRO | 100UF | 10WV | | |
| C1804 | | | CK73EF1C225Z | CHIP C | 2.2UF | Z | | |
| C1805 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| CN1101 | | | E40-8210-08 | PIN ASSY | | | | |
| CN1300 | | | E40-8080-08 | PIN ASSY | | | | |
| CN1401 | | | E40-8211-08 | PIN ASSY | | | | |
| CN1501 | | | E40-8371-08 | PIN ASSY | | | | |
| CN1602 | | | E40-8212-08 | PIN ASSY | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| CN1603 | | | E40-8372-08 | PIN ASSY | | | | | |
| CN1604 | | | E40-8213-08 | PIN ASSY | | | | | |
| CN1901 | | | E40-8228-08 | PIN ASSY | | | | | |
| CW1901 | 2A | | E40-8229-08 | FLAT CABLE (5P) | | | | | |
| CW1903 | 2B | | E40-8230-08 | WIRING HARNESS (2P) | | | | | |
| L1100 | | | L90-0100-08 | COIL | | | | | |
| L1101 | | | L90-0099-08 | COIL | | | | | |
| L1200 | | | L90-0301-08 | COIL | | | | | |
| L1201 | | | L90-0100-08 | COIL | | | | | |
| L1300,01 | | | L90-0302-08 | COIL | | | | | |
| L1501 | | | L90-0303-08 | COIL | | | | | |
| L1503 | | | L90-0301-08 | COIL | | | | | |
| L1600 | | | L90-0303-08 | COIL | | | | | |
| L1700,01 | | | L90-0099-08 | COIL | | | | | |
| XL1201 | | | L77-2224-08 | CRYSTAL RESONATOR (33.8688MHZ) | | | | | |
| R1100 | | | RK73EB2B270J | CHIP R | 27 | J | 1/8W | | |
| R1101 | | | RK73GB1J1R0J | CHIP R | 1 | J | 1/16W | | |
| R1102 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1103 | | | RK73GB1J394J | CHIP R | 390K | J | 1/16W | | |
| R1105 | | | RK73GB1J122J | CHIP R | 1.2K | J | 1/16W | | |
| R1106 | | | RK73GB1J563J | CHIP R | 56K | J | 1/16W | | |
| R1107 | | | RK73GB1J561J | CHIP R | 560 | J | 1/16W | | |
| R1108-12 | | | RK73GB1J223J | CHIP R | 22K | J | 1/16W | | |
| R1113 | | | R92-1823-08 | JUMPER R | 0 | J | 1/16W | | |
| R1200,01 | | | RK73GB1J124J | CHIP R | 120K | J | 1/16W | | |
| R1202,03 | | | RK73GB1J154D | CHIP R | 150K | D | 1/16W | | |
| R1204,05 | | | RK73GB1J623J | CHIP R | 62K | J | 1/16W | | |
| R1206,07 | | | RK73GB1J333J | CHIP R | 33K | J | 1/16W | | |
| R1208 | | | RK73GB1J221J | CHIP R | 220 | J | 1/16W | | |
| R1209 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R1210,11 | | | RK73GB1J221J | CHIP R | 220 | J | 1/16W | | |
| R1212 | | | RK73GB1J470J | CHIP R | 47 | J | 1/16W | | |
| R1214 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1215 | | | RK73GB1J105J | CHIP R | 1.0M | J | 1/16W | | |
| R1216 | | | R92-1823-08 | JUMPER R | 0 | J | 1/16W | | |
| R1217 | | | RK73GB1J151J | CHIP R | 150 | J | 1/16W | | |
| R1219 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1220 | | | R92-1823-08 | JUMPER R | 0 | J | 1/16W | | |
| R1221,22 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1223 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R1224 | | | R92-1823-08 | JUMPER R | 0 | J | 1/16W | | |
| R1300 | | | R92-1824-08 | JUMPER R | 0 | J | 1/10W | | |
| R1301 | | | RK73GB1J100J | CHIP R | 10 | J | 1/16W | | |
| R1302 | | | R92-1824-08 | JUMPER R | 0 | J | 1/10W | | |
| R1303 | | | RK73EB2B000J | CHIP R | 0 | J | 1/8W | | |
| R1304 | | | RK73FB2A681J | CHIP R | 680 | J | 1/10W | | |
| R1400 | | | RK73GB1J272J | CHIP R | 2.7K | J | 1/16W | | |
| R1401 | | | RK73GB1J152J | CHIP R | 1.5K | J | 1/16W | | |
| R1402-04 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R1405 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R1406,07 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R1408 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R1409 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R1410 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R1411 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |

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|---|---|---|---|---|---|---|---|---|---|
| R1412 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1413,14 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R1415-17 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1419-24 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1425 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R1426-28 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R1429 | | | RK73GB1J473J | CHIP R | 47K | J | 1/16W | | |
| R1430 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1444 | | | RK73GB1J101J | CHIP R | 100 | J | 1/16W | | |
| R1510,11 | | | RK73GB1J822J | CHIP R | 8.2K | J | 1/16W | | |
| R1512,13 | | | RK73GB1J470J | CHIP R | 47 | J | 1/16W | | |
| R1514 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R1515,16 | | | RK73GB1J182J | CHIP R | 1.8K | J | 1/16W | | |
| R1517,18 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1519 | | | RK73GB1J121J | CHIP R | 120 | J | 1/16W | | |
| R1520 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1521 | | | RK73GB1J682J | CHIP R | 6.8K | J | 1/16W | | |
| R1522 | | | RK73GB1J221J | CHIP R | 220 | J | 1/16W | | |
| R1523 | | | R92-1823-08 | JUMPER R | 0 | J | 1/16W | | |
| R1525 | | | RK73GB1J332J | CHIP R | 3.3K | J | 1/16W | | |
| R1526 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R1527-29 | | | RK73GB1J822J | CHIP R | 8.2K | J | 1/16W | | |
| R1530,31 | | | RK73GB1J221J | CHIP R | 220 | J | 1/16W | | |
| R1532 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R1535 | | | RK73FB2A470J | CHIP R | 47 | J | 1/10W | | |
| R1536-39 | | | R92-1824-08 | JUMPER R | 0 | J | 1/10W | | |
| R1561 | | | R92-1824-08 | JUMPER R | 0 | J | 1/10W | | |
| R1600,01 | | | RK73GB1J682D | CHIP R | 6.8K | D | 1/16W | | |
| R1605,06 | | | RK73GB1J103J | CHIP R | 10K | J | 1/16W | | |
| R1612 | | | RK73GB1J204D | CHIP R | 200K | D | 1/16W | | |
| R1614 | | | R92-1874-08 | METAL | 100K | D | 1/16W | | |
| R1616,17 | | | RK73GB1J682J | CHIP R | 6.8K | J | 1/16W | | |
| R1618 | | | RK73GB1J153J | CHIP R | 15K | J | 1/16W | | |
| R1620 | | | RK73GB1J153J | CHIP R | 15K | J | 1/16W | | |
| R1700 | | | RK73GB1J393J | CHIP R | 39K | J | 1/16W | | |
| R1701 | | | RK73GB1J303J | CHIP R | 30K | J | 1/16W | | |
| R1702 | | | R92-1872-08 | METAL | 1K | D | 1/16W | | |
| R1703 | | | R92-1875-08 | METAL | 3.3K | D | 1/16W | | |
| R1704 | | | RK73GB1J821J | CHIP R | 820 | J | 1/16W | | |
| R1705 | | | RK73GB1J393J | CHIP R | 39K | J | 1/16W | | |
| R1706 | | | RK73GB1J105J | CHIP R | 1.0M | J | 1/16W | | |
| R1707 | | | RK73GB1J102J | CHIP R | 1.0K | J | 1/16W | | |
| R1708 | | | RK73GB1J273J | CHIP R | 27K | J | 1/16W | | |
| R1709 | | | RK73GB1J393J | CHIP R | 39K | J | 1/16W | | |
| R1710 | | | RK73GB1J684J | CHIP R | 680K | J | 1/16W | | |
| R1711,12 | | | RK73FB2A120J | CHIP R | 12 | J | 1/10W | | |
| R1713 | | | RK73GB1J104J | CHIP R | 100K | J | 1/16W | | |
| R1801 | | | RK73GB1J271J | CHIP R | 270 | J | 1/16W | | |
| R1802 | | | R92-1873-08 | METAL | 220K | D | 1/16W | | |
| R1803 | | | R92-1874-08 | METAL | 100K | D | 1/16W | | |
| R1804 | | | RK73GB1J391J | CHIP R | 390 | J | 1/16W | | |
| R1805 | | | RK73GB1J271J | CHIP R | 270 | J | 1/16W | | |
| ⚠ R1806 | | | RK73FB2A1R0J | CHIP R | 1 | J | 1/10W | | |
| R1807 | | | RK73GB1J273J | CHIP R | 27K | J | 1/16W | | |
| R1808 | | | RK73GB1J182J | CHIP R | 1.8K | J | 1/16W | | |

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(20)

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|---|---|---|---|---|---|---|---|---|---|
| ⚠ R1809 | | | RK73EB2B1R0J | CHIP R | 1 | J | 1/8W | | |
| ⚠ R1811 | | | RK73EB2B1R0J | CHIP R | 1 | J | 1/8W | | |
| R1901 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R1902 | | | RK73FB2A182J | CHIP R | 1.8K | J | 1/10W | | |
| R1903,04 | | | RK73FB2A821J | CHIP R | 820 | J | 1/10W | | |
| SW1952 | | | S68-0090-08 | SWITCH | | | | | |
| SW1953 | 2A | | S68-0092-08 | SWITCH | | | | | |
| SW1954,55 | 2A | | S64-0035-08 | SWITCH | | | | | |
| SW1956 | 2A | | S64-0029-08 | SWITCH | | | | | |
| D1300,01 | | | SB0209CP | DIODE | | | | | |
| D1401 | | | SB00703Q | DIODE | | | | | |
| IC1101 | | | IR3R55 | IC | | | | | |
| IC1201 | | | LR376484 | IC | | | | | |
| IC1202 | | | IX2474AF | IC | | | | | |
| IC1300 | | | 74ACT02F | IC | | | | | |
| IC1401 | | | IX0253AW | IC | | | | | |
| IC1402 | | | S29294A | IC | | | | | |
| IC1601 | | | BA5984FP | IC | | | | | |
| IC1701 | | | UDA1344 | IC | | | | | |
| IC1702 | | | NJM431U | IC(REGULATOR) | | | | | |
| IC1801 | | | XC62EP32 | IC | | | | | |
| Q1300 | | | 2SK2909 | FET | | | | | |
| Q1301 | | | 2SK1473 | FET | | | | | |
| Q1302 | | | 2SK2909 | FET | | | | | |
| Q1303 | | | 2SK1473 | FET | | | | | |
| Q1400,01 | | | RNC1404 | TRANSISTOR | | | | | |
| Q1402,03 | | | RN2404 | TRANSISTOR | | | | | |
| Q1500 | | | RNC1407 | TRANSISTOR | | | | | |
| ⚠ Q1700 | | | 2SC2412KR | TRANSISTOR | | | | | |
| Q1701 | | | RNC1404 | TRANSISTOR | | | | | |
| ⚠ Q1702 | | | 2SA1162G | TRANSISTOR | | | | | |
| Q1800 | | | RNC1407 | TRANSISTOR | | | | | |
| Q1801 | | | 2SA1162G | TRANSISTOR | | | | | |
| Q1802 | | | RNC1407 | TRANSISTOR | | | | | |
| Q1803 | | | RN1406 | TRANSISTOR | | | | | |
| ⚠ Q1804,05 | | | 2SA1314C | TRANSISTOR | | | | | |
| Q1806 | | | RN1406 | TRANSISTOR | | | | | |
| **MD MECHANISM (D40-1602-05)** | | | | | | | | | |
| 201 | 2B | | J90-0857-08 | GUIDE | | | | | |
| 202 | 3A | | J90-0858-08 | GUIDE | | | | | |
| 203 | 2B | | A13-3122-08 | FRAME | | | | | |
| 204 | 3B | | A10-3416-08 | CHASSIS ASSY | | | | | |
| 205 | 1A | | J19-5899-08 | HOLDER | | | | | |
| 206 | 2A | | D10-3789-08 | SLIDER ASSY | | | | | |
| 207 | 3B | | D10-3790-08 | ARM | | | | | |
| 208 | 1A | | D10-3791-08 | ARM | | | | | |
| 209 | 2A | | D10-3853-08 | ARM ASSY | | | | | |
| 210 | 1A | | D10-3793-08 | SLIDER | | | | | |
| 211 | 1A | | D10-3794-08 | ARM | | | | | |
| 212 | 1A | | D10-3795-08 | SLIDER | | | | | |
| 213 | 1A | | G01-4046-08 | SPRING | | | | | |
| 214 | 3A | | G01-4047-08 | SPRING | | | | | |
| 215 | 2A | | G01-3972-08 | SPRING | | | | | |
| 216 | 1A | | G01-3974-08 | SPRING | | | | | |

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|---|---|---|---|---|---|---|
| 217 | 2A | | G01-4110-08 | SPRING | | |
| 218 | 1A | | G01-3976-08 | SPRING | | |
| 219 | 2A | | G02-1651-08 | FLAT SPRING | | |
| 220 | 2B | | G02-1652-08 | FLAT SPRING | | |
| 221 | 2A | | G01-3973-08 | SPRING | | |
| 222 | 2A | | D13-1859-08 | GEAR | | |
| 223 | 2A | | D13-1860-08 | GEAR | | |
| 224 | 3A | | D13-1861-08 | GEAR | | |
| 225 | 2A | | D13-1862-08 | GEAR | | |
| 226 | 2A | | D13-1863-08 | GEAR | | |
| 229 | 1A | | D13-1864-08 | GEAR | | |
| 230 | 1A | | D14-0394-08 | ROLLER | | |
| 231 | 2A | | D19-0312-08 | LEAD SCREW | | |
| 232 | 2A | | D21-1895-08 | SHAFT | | |
| 233 | 2A | | D10-3699-08 | ROD | | |
| 234 | 3A | | D10-3702-08 | ROD | | |
| 235 | 1B | | A01-3552-08 | METALLIC CABINET | | |
| 236 | 3B | | A01-3553-08 | METALLIC CABINET | | |
| 237 | 1B | | J02-1439-08 | INSULATOR | | |
| 238 | 2B | | J02-1440-08 | INSULATOR | | |
| 239 | 1B | | G11-2380-08 | CUSHION | | |
| 242 | 2B,1H | | E35-2309-08 | FLAT CABLE | | |
| 245 | 1A | | F19-1083-08 | SHEET | | |
| 246 | 2B | | F19-1084-08 | SHEET | | |
| BB | | | N09-3426-08 | SCREW M1.7X7.5 | | |
| BD | | | N09-3115-08 | SCREW M1.4X2.2 | | |
| BF | | | N09-3347-08 | SCREW M1.7X2.5 | | |
| BG | | | N09-3352-08 | SCREW M1.7X8.9 | | |
| BK | | | N09-3350-08 | SCREW M2.0X4.0 | | |
| BL | | | N09-3351-08 | SCREW M1.7X3.0 | | |
| DMMD | 3A | | T42-0904-08 | MOTOR ASSY M901 | | |
| FMMD | 3A | | T42-0905-08 | MOTOR ASSY M902 | | |
| LMMD | 3A | | T42-0906-08 | MOTOR ASSY M903 | | |
| PUMD | 2A | | T25-0080-08 | PICKUP | | |
| RHMD | 1A | | T30-0017-08 | RECORD HEAD | | |
| **CASSETTE MECHANISM (D40-1601-05)** | | | | | | |
| 301 | 1D | | A10-3157-08 | CHASSIS BASE | | |
| 305 | 1D | | D01-0119-08 | FLYWHEEL ASSY LEFT | | |
| 306 | 1E | | D01-0205-08 | FLYWHEEL ASSY RIGHT | | |
| 331 | 2D | | D19-0310-08 | CLUTCH ASSY | | |
| 369 | 2C | | N87-2004-46 | HEAD PCB SCREW | | |
| 370 | 2C | | N87-2006-46 | SCREW | | |
| 374 | 1E | | N19-0904-08 | WASHER | | |
| 375 | 1D,1E | | N19-0905-08 | WASHER | | |
| 378 | 2D | | N19-1214-08 | WASHER | | |
| 380 | 2D | | N29-0205-04 | E RING | | |
| 389 | 2E | | T94-0225-08 | SOLENOID SHAFT | | |
| 391 | 1E | | W02-2688-08 | ELECTRIC UNIT B | | |
| BM | 1E | | D16-0371-08 | MAIN BELT | | |
| BR | 2E | | D16-0372-08 | REEL BELT | | |
| MM | 1D | | T42-0933-08 | MAIN MOTOR ASSY | | |
| PF | 2D | | D14-0399-08 | PINCH ROLLER ASSY (FWD) | | |
| PR | 1C | | D14-0400-08 | PINCH ROLLER ASSY (RVS) | | |

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|---|---|---|---|---|---|---|
| RPEH | 2C | | T39-0038-08 | REC/PLAYBACK/ERASE HEAD | | |
| **CD-MECHANISM** | | | | | | |
| ⚠ PU | | | T25-0061-08 | PICKUP (KSS-213C) | | |
| **SPEAKER (LS-M31(M))** | | | | | | |
| - | | ✻ | A05-0264-08 | SPEAKER SYSTEM SP381-04-0266A | MET | |
| - | | ✻ | A05-0267-08 | SPEAKER SYSTEM SP381-04-0266C | KP | |
| - | | ✻ | A21-3820-08 | FRONT PANEL 106-03310-072 | MET | |
| - | | ✻ | A21-3820-08 | FRONT PANEL 106-03310-072 | KP | |
| - | | ✻ | T03-0506-08 | TWEETER 029-05006-412 | MET | |
| - | | ✻ | T03-0506-08 | TWEETER 029-05006-412 | KP | |
| - | | ✻ | T10-1007-08 | WOOFER 029-10006-412 | MET | |
| - | | ✻ | T10-1007-08 | WOOFER 029-10006-412 | KP | |

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# SPECIFICATIONS

## Main unit

### [Amplifier section]

Effective output power during STEREO operation
1 kHz, 10 % T.H.D., at 6 Ω ..... 15 W + 15 W
Rated output power during STEREO operation
Other countries
1 kHz, 0.7 % T.H.D., at 6 Ω ..... 12 W + 12 W
Frequency response
AUX ..... 20 Hz~20 kHz (0 dB ~ -3dB)

### [Tuner section]

#### FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

#### MW (AM) tuner section

Tuning frequency range
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz

### [MD recorder section]

Laser ..... Semiconductor laser
Recording method ..... Field modulation overwrite method
D/A Conversion ..... 1 Bit
Wow & flutter ..... Less than unmeasurable limit

### [CD player section]

Laser ..... Semiconductor laser
D/A Conversion ..... 1 Bit
Frequency response ..... 20 Hz~20 kHz
Wow and flutter ..... Less than unmeasurable limit

### [Cassette deck section]

Track ..... 4-track, 2-channel stereo
Recording system ..... AC bias system
(Frequency: 65 kHz)
Heads
Playback / recording head ..... 1
Erasing head ..... 1
Motors ..... 1
Wow and flutter ..... 0.2 % (W.R.M.S.)
Fast winding time ..... Approx. 100 seconds
(C-60 tape)

### [General]

Power consumption ..... 36 W
Dimensions ..... W : 180 mm
H : 257 mm
D : 275 mm
Weight (net) ..... 5.1 kg

## Speakers

Enclosure ..... Book shelf type, magnetically shielded
Speaker configuration
Woofer ..... 100 mm, cone type
Tweeter ..... 50 mm, cone type
Impedance ..... 6 Ω
Maximum input level ..... 20 W
Dimensions ..... W : 150 mm
H : 255 mm
D : 240 mm
Weight (net) ..... 2.4 kg(1 piece)

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Notes

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

# RXD-M31MD

**Note:**
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on General market(M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.


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